AX8600R Software Manual

# Message and Log Reference

# For Version 12.1

AX86R-S010X



#### Relevant products

This manual applies to the models in the AX8600R series of devices. It also describes the functionality of version 12.1 of the software for the AX8600R series of devices.

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#### Reading and storing this manual

Before you use the equipment, carefully read the manual and make sure that you understand all safety precautions.

After reading the manual, keep it in a convenient place for easy reference.

#### Notes

Information in this document is subject to change without notice.

#### Editions history

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# Preface

# Applicable products and software versions

This manual applies to the models in the AX8600R series of devices. It also describes the functionality of version 12.1 of the software for the AX8600R series of devices.

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.

# **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 Device.

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 Device.

• Unpacking the Device and the basic settings for initial installation

Quick Start Guide

(AX86R-Q001X)

• Determining the hardware setup requirements and how to handle the hardware

Hardware Instruction Manual

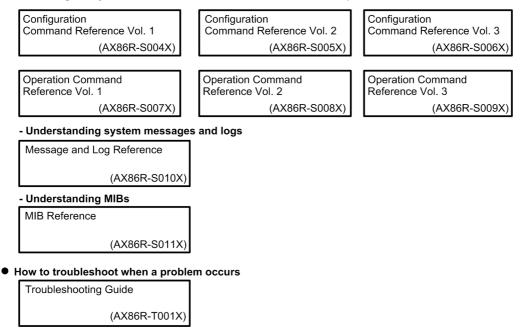
(AX86R-H001X)

- Understanding the software functions, configuration settings, and operation commands  $\nabla$  First, see the following guides to check the functions or capacity limits.
  - Capacity limits - Filters and QoS
  - Basic operations (e.g. logging in) Network management - Ethernet
- IP packet forwarding
- Unicast routing - Multicast routing

Configuration Guide Vol. 3 Configuration Guide Vol. 1 Configuration Guide Vol. 2 (AX86R-S003X) (AX86R-S001X) (AX86R-S002X)

 $\nabla$  If necessary, see the following references.

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



# Conventions: The terms "Device" and "device"

The term Device (upper-case "D") is an abbreviation for the following:

AX8600R series device

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

# Abbreviations used in the manual

AC	Alternating Current
ACK	ACKnowledge
ARP	Address Resolution Protocol
AS	Autonomous System
AUX	Auxiliary
BCU	Basic Control Unit

BEO Best Effort Queueing BGP Border Gateway Protocol BGP4 Border Gateway Protocol - version 4 BGP4+ Multiprotocol Extensions for Border Gateway Protocol - version 4 bit/s bits per second (can also appear as bps) BOOTP Bootstrap Protocol BPDU Bridge Protocol Data Unit Continuity Check CC CCM Continuity Check Message Connectivity Fault Management CFM CFP C Form-factor Pluggable CIDR Classless Inter-Domain Routing Class of Service CoS CRC Cyclic Redundancy Check CSMA/CD Carrier Sense Multiple Access with Collision Detection Destination Address DA DC Direct Current DCE Data Circuit terminating Equipment DHCP Dynamic Host Configuration Protocol DHCPv6 Dynamic Host Configuration Protocol for IPv6 DNS Domain Name System Designated Router DR DSAP Destination Service Access Point Differentiated Services Code Point DSCP DTE Data Terminal Equipment Electronic mail E-mail EAP Extensible Authentication Protocol EAPOL EAP Over LAN EFM Ethernet in the First Mile ETH-AIS Ethernet Alarm Indicator Signal ETH-LCK Ethernet Locked Signal FAN Fan Unit FCS Frame Check Sequence Gigabit Switch Redundancy Protocol GSRP HMAC Keyed-Hashing for Message Authentication IANA Internet Assigned Numbers Authority ICMP Internet Control Message Protocol Internet Control Message Protocol version 6 TCMPv6 Identifier ID IEEE Institute of Electrical and Electronics Engineers, Inc. the Internet Engineering Task Force IETF IGMP Internet Group Management Protocol ΙP Internet Protocol IPv4 Internet Protocol version 4 IPv6 Internet Protocol version 6 IPX Internetwork Packet Exchange TSO International Organization for Standardization Internet Service Provider ISP LAN Local Area Network Liquid Crystal Display LCD Light Emitting Diode LED LLC Logical Link Control LLDP Link Layer Discovery Protocol LLQ Low Latency Queueing LSA Link State Advertisement MA Maintenance Association MAC Media Access Control MC Memory Card MD5 Message Digest 5 MDI Medium Dependent Interface Medium Dependent Interface crossover MDI-X MEG Maintenance Entity Group MEP Maintenance association End Point/Maintenance entity group End Point Management Information Base MTB MIP Maintenance domain Intermediate Point ΜP Maintenance Point

MRU	Maximum Receive Unit
MTU	Maximum Transfer Unit
NAK	Not AcKnowledge
NAS	Network Access Server
NBMA	Non-Broadcast Multiple-Access
	-
NDP	Neighbor Discovery Protocol
NIF	Network Interface
NLA ID	Next-Level Aggregation Identifier
NSAP	Network Service Access Point
NSSA	Not So Stubby Area
NTP	Network Time Protocol
OAM	Operations, Administration, and Maintenance
OSPF	Open Shortest Path First
OUI	Organizationally Unique Identifier
PA	Protocol Accelerator
packet/s	packets per second (can also appear as pps)
PAD	PADding
PC	Personal Computer
PDU	Protocol Data Unit
PID	Protocol IDentifier
PIM	Protocol Independent Multicast
PIM-SM	Protocol Independent Multicast-Sparse Mode
PIM-SSM	Protocol Independent Multicast-Source Specific Multicast
PQ	Priority Queueing
PRU	Packet Routing Unit
PS	Power Supply
PSINPUT	Power Supply Input
QoS	Quality of Service
RA	Router Advertisement
RADIUS	Remote Authentication Dial In User Service
RDI	Remote Defect Indication
RFC	Request For Comments
RIP	Routing Information Protocol
RIPng	Routing Information Protocol next generation
-	
RMON	Remote Network Monitoring MIB
RPF	Reverse Path Forwarding
RR	Round Robin
RQ	ReQuest
SA	Source Address
SD	Secure Digital
SFD	Start Frame Delimiter
SFP	Small Form factor Pluggable
SFP+	Small Form factor Pluggable Plus
	Switch Fabric Unit
SFU	
SMTP	Simple Mail Transfer Protocol
SNAP	Sub-Network Access Protocol
SNMP	Simple Network Management Protocol
SNPA	Subnetwork Point of Attachment
SOP	System Operational Panel
SPF	Shortest Path First
SSAP	Source Service Access Point
TA	Terminal Adapter
	-
TACACS+	Terminal Access Controller Access Control System Plus
TCP/IP	Transmission Control Protocol/Internet Protocol
TLV	Type, Length, and Value
TOS	Type Of Service
TPID	Tag Protocol Identifier
TTL	Time To Live
UDP	User Datagram Protocol
URL	Uniform Resource Locator
uRPF	unicast Reverse Path Forwarding
	Virtual LAN
VLAN	
VPN	Virtual Private Network
VRF	Virtual Routing and Forwarding/Virtual Routing and Forwarding
	Instance
VRRP	Virtual Router Redundancy Protocol
WAN	Wide Area Network

WFQ Weighted Fair Queueing WWW World-Wide Web

# 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.

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- 1.1 Format of system messages1.2 System message components

# 1.1 Format of system messages

The Device outputs information to be reported to the administrator, such as operating status and failure information, to an operation terminal as system messages. The messages are output to operation terminals and are saved on devices as operation logs. Using this log data, you can manage the device operating status.

The following table describes the types of output messages and gives references for those messages.

Message type Description Reference		Reference
System messages	Device failure information and event information	This manual
Configuration error messages	Messages output for input of configuration command	Error Messages Displayed When Editing the Configuration in the manual Configuration Command Reference
Command response messages	Messages output for input of operation command	Response Messages section of each command in the manual Operation Command Reference

Table 1-1: Message types and references

# 1.1.1 Format of screen output

The following figure shows the format of system messages when output to the screen.

*Figure 1-1:* Format of screen output

 $\frac{yyyy/mm/dd \text{ hh:mm:ss } zzzz}{1} \frac{1-b(c)}{2} \frac{ee}{3} \frac{kkkkkkk}{4} \frac{[\text{iii...iii}]}{6} \frac{xxxxxxx}{7}$   $\frac{yy yyyyyyyyyyy}{8} \frac{\text{ttt...ttt}}{9}$ 

- 1. Time: Displays the year, month, day, hour, minute, and second as well as the time zone when the message was output.
- 2. BCU number: Displays the number of a BCU-installed slot where an event occurred.
- 3. System status: Displays the status of a BCU in which an event occurred. A is displayed for the active system, and s is displayed for the standby system.
- 4. Event level (S0 to S7)
- 5. Message type
- 6. Message type details. Whether this information is displayed depends on the message type.
- 7. Message ID: Displays a unique ID for identifying messages.
- 8. Additional information: Displays event details as codes.
- 9. Message text (maximum of 316 characters)

## 1.1.2 Log types

The Device collects two types of log data: operation log data and statistics log data. The operation log collects system messages, command response messages, configuration error messages, and input commands as log entries, in chronological order. The statistics log collects statistics about system messages as log entries.

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

Item	Operation log	Statistics log
Log contents	<ul> <li>Acquires messages and input commands in chronological order. #1</li> </ul>	• For each identical system message <sup>#2</sup> , records the statistics for the time of the first and last occurrences, and the total number of occurrences.
The information to be collected	<ul> <li>System messages</li> <li>Command response messages</li> <li>Configuration error messages</li> <li>The input commands</li> </ul>	System messages
The number of acquired entries	<ul> <li>The number of operation log entries to be collected is 200000<sup>#3</sup>.</li> <li>The minimum number of log entries to be stored is fixed for each message type. You can change the minimum number of log entries to be stored by using the logging save-count configuration commands. The default number of entries is 500.</li> </ul>	• The number of statistics log entries to be collected is 5000.
Processing for when the maximum number of log entries is exceeded.	• The stored old operation log entries are deleted, excluding the minimum number of operation log entries stored for each message type.	• The statistics logs with the lowest event level are deleted from the stored statistics log entries. If multiple statistics log entries with the lowest event level exist, the statistics log entries with the earliest last-occurrence time among those log entries are deleted.

Tahle	1-2.	Features	of the	operation	log and	statistics lo	σ
Iuoic	1-4.	1 catures	or the	operation	ing and	statistics to	5

#### #1

If multiple log entries are simultaneously acquired, those log entries might not be displayed in chronological order.

#2

Messages are regarded as identical if the following details are the same:

- BCU number
- System status
- Event level
- Message type
- Message type details
- Message ID
- The first 2 digits of the additional information

However, if the message type details indicate logical sections or numbers such as protocols, the message type details are excluded from the conditions to determine whether the system messages are identical.

#3

The number of operation log entries to be collected depends on the length of each operation log entry that is actually collected. However, at least 200000 operation log entries can be collected.

# 1.1.3 Format of operation logs

Each operation log format is shown below.

## (1) System messages

The following figure shows the system message format.

*Figure 1-2:* Format of system messages

```
\frac{yyyy/mm/dd hh:mm:ss[.nnn]}{1} \frac{zzzz}{2} \frac{1-b}{2} \frac{(c)}{3} \frac{ee}{4} \frac{kkkkkkkk}{5} \frac{[iii...iii]}{6} \frac{xxxxxxx}{7}
\frac{yy yyyyyyyyyyy}{8} \frac{ttt...ttt}{9}
```

1. Time: Displays the year, month, day, hour, minute, and second as well as the time zone when the log entry was acquired.

If the timezone is displayed by using the show logging command, the timezone where the command is executed is displayed. By specifying a parameter for the show logging command, you can also display milliseconds.

- 2. BCU number: Displays the number of a BCU-installed slot where an event occurred.
- 3. System status: Displays the status of a BCU in which an event occurred. A is displayed for the active system, and s is displayed for the standby system.
- 4. Event level (S0 to S7)
- 5. Message type
- 6. Message type details. Whether this information is displayed depends on the message type.
- 7. Message ID: Displays a unique ID for identifying messages.
- 8. Additional information: Displays event details as codes.
- 9. Message text (maximum of 316 characters)

# (2) Format of input commands, command response messages, and configuration error messages

The following figure shows the format of input commands, command response messages, and configuration error messages.

*Figure 1-3:* Format of input commands, command response messages, and configuration error messages

 $\frac{yyyy/mm/dd \ hh:mm:ss[.nnn]}{1} \quad \frac{zzzz}{2} \quad \frac{1-b}{2} \frac{(c)}{3} \quad \frac{ee}{4} \quad \frac{kkkkkkkk}{5} \quad \frac{xxxx(xxxx):xxxx}{6} \quad \frac{ttt...ttt}{7}$ 

1. Time: Displays the year, month, day, hour, minute, and second as well as the time zone when the log entry was acquired.

If the timezone is displayed by using the show logging command, the timezone where the command is executed is displayed. By specifying a parameter for the show logging command, you can also display milliseconds.

- 2. BCU number: Displays the number of a BCU-installed slot where an event occurred.
- 3. System status: Displays the status of a BCU in which an event occurred. A is displayed for the active system, and s is displayed for the standby system.
- 4. Event level (fixed as S6)
- 5. Message type

- 6. Account and terminal information (not displayed when they are not acquired)
- 7. Message text (maximum of 316 characters): Displays entered commands, command response messages, and configuration error messages.

If the message contains a line feed, it is indicated by ^J. In addition, a configuration error message might contain the detailed code at the end of the message.

# 1.1.4 Format of statistics logs

The following figure shows the format of statistics logs.

- 1. BCU number: Displays the number of a BCU-installed slot where an event occurred.
- 2. System status: Displays the status of a BCU in which an event occurred. A is displayed for the active system, and s is displayed for the standby system.
- 3. Event level (S0 to S7)
- 4. Message type
- 5. Message type details. Whether this information is displayed depends on the message type.
- 6. Message ID: Displays a unique ID for identifying messages.
- 7. Additional information: Displays event details as codes.
- 8. Occurrence date and time of the last event
- 9. Occurrence date and time of the first event
- 10. Number of events that occurred

# 1.2 System message components

# 1.2.1 Event level

Events that occurred are classified into eight levels according to their severity. The following table describes the event levels and their details.

If an event from the level S0 to S4 occurs, you need to take action. When an event whose event level is S5 occurs, we recommend that you check if any action needs to be taken.

Event level	Description
S0	The entire device restarts.
S1	This error stops part of the hardware. (The relevant hardware restarts.)
S2	This error stops part of the software.
S3	Minor errors other than S1 and S2.
S4	Warning
S5	Note (part of normal operations is included.)
S6	Record of normal operations
S7	Record of each functionality in detail

*Table 1-3*: List of event levels

## 1.2.2 Message types

The message type displays the location or functionality in which an event occurred. The following table shows a list of message types.

Message type	Event location or functionality
BCU	BCU
SFU	SFU
PRU	PRU
NIF	NIF
PS	Power supply unit
FAN	Fan
КЕҮ	Input commands
CONFIGERR	Configuration error message
CMDRSP	Command response message
SOFTWARE	Software
CONFIG	Configuration
ACCESS	Access to the device
NTP	NTP, SNTP
SOP-KEY	Operation of system operation panel

Table 1-4: List of message types

Message type	Event location or functionality
SOP-RSP	System operation panel response message
SNMP	SNMP
PORT	Port
ChGr	Link aggregation
CFM	CFM
IP	IPv4, IPv6
PBR	Policy-based routing
DHCP	DHCP/BOOTP relay agent, DHCPv6 relay agent
VRRP	VRRPv4, VRRPv6
RIP	RIP
RIPng	RIPng
OSPF	OSPF
OSPFv3	OSPFv3
BGP4	BGP4
BGP4+	BGP4+
UNICAST	Unicast routing protocol (IPv4, IPv6)
PIM-IPv4	IPv4 PIM
IGMP	IGMP
PIM-IPv6	IPv6 PIM
MLD	MLD
MULTI-IPv4	IPv4 multicast routing protocol
MULTI-IPv6	IPv6 multicast routing protocol
MULTI-INFO	Multicast routing protocol

# 1.2.3 Message type details

If multiple locations of the same type exist in the device, the details of the location in which an event occurred are displayed. The details are displayed as either physical locations or numbers such as PRU or NIF, or as logical locations or numbers such as protocols. Whether details are displayed depends on the message type.

The following table lists the formats of displayed message type details.

Table 1-5: List of formats of displayed message type details

Formats of displayed message type details	Event location and displayed details
SFU: <sfu no.=""> [<sfu type="">]</sfu></sfu>	SFU < <i>sfu no.</i> >: SFU number < <i>sfu type</i> >: Abbreviated model name of SFU <sup>#</sup>

Formats of displayed message type details	Event location and displayed details
PRU: <pru no.=""> [<pru type="">]</pru></pru>	PRU < <i>pru no.</i> >: PRU number < <i>pru type</i> >: Abbreviated model name of PRU <sup>#</sup>
NIF:< <i>nif no.</i> > [ <i><nif i="" type<="">&gt;]</nif></i>	NIF < <i>nif no.</i> >: NIF number < <i>nif type</i> >: Abbreviated model name of NIF <sup>#</sup>
PORT: < <i>nif no.</i> >/< <i>port no.</i> >	Port < <i>nif no.</i> >: NIF number < <i>port no.</i> >: Port number
MGMT: 0	Management port
PS: <ps no.=""></ps>	Power supply unit < <i>ps no.</i> >: The number of the slot on which the power supply unit is installed.
FAN:< <i>fan unit no.</i> >	Fan <i><fan i="" no.<="" unit="">&gt;: Fan unit number</fan></i>
ChGr:< <i>channel group number</i> >	Channel group <pre></pre> <pre></pre> <pre></pre> <pre>Channel group number</pre>
VRID: <vrid></vrid>	Virtual router < <i>vrid</i> >: Virtual router ID
VRF: <vrf id=""></vrf>	VRF < <i>vrf id</i> >: VRF ID

#: The system message might omit the abbreviated model name.

# Chapter 2. Hardware

2.1 BCU 2.2 SFU 2.3 PRU 2.4 NIF 2.5 PS 2.6 FAN

# 2.1 BCU

The following table shows the system messages of the BCU message type.

Table 2-1: System messages of the BCU message type

Message ID	Event level	Message text	
	Description and action		
00003001	<b>S</b> 6	The BCU restarted because the RESET switch was pressed.	
	The BCU restar [Action] None.	ted because the RESET switch was pressed.	
00003002	S6	The BCU restarted because of a default restart.	
	The BCU restar [Action] None.	ted because of a default restart.	
00003003	SO	The BCU restarted because the software detected a fatal error.	
	The software detected a fatal error and restarted the BCU. [Action] Collect dump information, log information, and the configuration. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
00003004	S1	The BCU restarted because the software detected a fatal error.	
	The software detected a fatal error and restarted the BCU. [Action] Collect dump information, log information, and the configuration. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
00003005	S6	The BCU restarted because of a user operation.	
	The BCU was restarted by the reload command. [Action] None.		
00003006	S0	The BCU restarted because the kernel detected a fatal software error.	
	The kernel detected a fatal error in the software and restarted the BCU. [Action] Collect dump information, log information, and the configuration. For details about how to information, see the <i>Troubleshooting Guide</i> .		
00003007	S1	The BCU restarted because the kernel detected a fatal software error.	
	[Action] Collect dump in	cted a fatal error in the software and restarted the BCU. formation, log information, and the configuration. For details about how to collect the the <i>Troubleshooting Guide</i> .	
00003008	S0	The BCU restarted because of a WDT timeout.	
	[Action] Collect dump in	ted because of a WDT (watchdog timer) timeout. formation, log information, and the configuration. For details about how to collect the the <i>Troubleshooting Guide</i> .	

Message ID	Event level	Message text	
	Description and action		
00003009	S1	The BCU restarted because of a WDT timeout.	
	[Action] Collect dump	arted because of a WDT (watchdog timer) timeout. information, log information, and the configuration. For details about how to collect t ee the <i>Troubleshooting Guide</i> .	
00003010	S0	The BCU restarted because the kernel detected a fatal hardware error.	
	The kernel det [Action] Replace the B	Exected a fatal error in the hardware and restarted the BCU.	
00003011	S1	The BCU restarted because the kernel detected a fatal hardware error.	
	The kernel detected a fatal error in the hardware and restarted the BCU. [Action] Replace the BCU.		
00003012	S0	The BCU restarted because the hardware detected a fatal hardware error.	
	The BCU restarted because the hardware detected a fatal hardware error. [Action] Replace the BCU.		
00003013	S1	The BCU restarted because the hardware detected a fatal hardware error.	
	The BCU restarted because the hardware detected a fatal hardware error. [Action] Replace the BCU.		
00003014	<b>S</b> 6	The BCU restarted because of an auto restart by software.	
	The BCU resta [Action] None.	arted because of an auto restart of the software.	
00003015	S6	The BCU restarted because the ACH switch was pressed.	
	The BCU restarted because the ACH switch was pressed. [Action] None.		
00200100	\$3	An access error was detected on the internal flash memory.	
	An access error was detected on the internal flash memory. [Action] An access error was detected in the BCU-internal flash disk. Replace the BCU.		
01101001	S6	Initialization is complete.	
	Initialization is [Action] None.	s complete.	

Message ID	Event level	Message text	
	Description and action		
01101002	S3	Initialization failed because the BCU is unknown.	
	[Action] 1. Make sure t 2. The softwar version of t	I cannot be initialized because the board is unknown. that the BCU board is inserted properly. re version does not support the BCU board. Check the type of the BCU board and the he software, and replace the BCU board or update the software. does not support the BCU board. Replace the BCU board.	
01101003	S6	The BCU will be restarted because of the user operation.	
	A user operatio [Action] None.	n will now restart the BCU.	
01101004	S6	The BCU will be restarted because the RESET switch was pressed.	
	The BCU will be restarted because the RESET switch was pressed. [Action] None.		
01101005	S5	The BCU redundancy status changed from duplex to simplex.	
	The BCU redundancy status changed from duplex to simplex. [Action] None.		
01101006	S6	The BCU redundancy status changed from simplex to duplex.	
	The BCU redundancy status changed from simplex to duplex. [Action] None.		
01101007	S6	The other BCU went down.	
	The BCU of the other system went down. [Action] None.		
01101008	S6	The time was synchronized with the time of the active BCU.	
	The time was matched to the time of the active system. This message appears only system. [Action] None.		
01101009	S6	The standby BCU will be inactivated by a command operation.	
	A command operation will now stop the standby BCU. [Action] None.		
0110100a	S6	The standby BCU will be activated by a command operation.	
	A command operation will now start the standby BCU. [Action] None.		

Message ID	Event level	Message text		
		Description and action		
0110100b	S6	The standby BCU will be inactivated by an operation from the system operation panel.		
	An operation fro [Action] None.	om the system operation panel will now stop the standby BCU.		
0110100c	S6	The standby BCU will be activated by an operation from the system operation panel.		
	An operation fro [Action] None.	om the system operation panel will now start the standby BCU.		
0110100d	S5	The BCU was switched over from standby to active.		
	<ul> <li>The BCU was switched over from the standby to the active system.</li> <li>[Action]</li> <li>1. There is no problem if a user operation caused the switchover.</li> <li>2. In other cases, execute the show logging command or show logging standby command, check the error message, and then take action accordingly. If the new standby system has not yet started, wait a while, and then check the message.</li> </ul>			
0110100e	\$5	The BCU was switched over from active to standby.		
	<ul> <li>The BCU was switched over from the active to the standby system.</li> <li>[Action]</li> <li>1. There is no problem if a user operation caused the switchover.</li> <li>2. In other cases, execute the show logging command or show logging standby command, check the error message, and then take action accordingly. If the new standby system has not yet started, wait a while, and then check the message.</li> </ul>			
0110100f	S6	The BCU will be restarted because of a BCU switchover occurred.		
	The BCU will restart because the system switchover occurred while the system was not in a redund configuration. This message appears in the new active system. [Action] None.			
01101010	<b>S</b> 6	The BCU will be switched over from active to standby and restart, because the ACH switch was pressed.		
	The BCU will be switched over from active to standby and restart, because the ACH switch was pressed. [Action] None.			
01101011	S3	A fatal error was detected on the other BCU.		
	[Action] After the BCU of	curred in the BCU of the other system. of the other system restarts, execute the show logging command or show logging hand, check the error details, and then take action accordingly.		

Message ID	Event level	Message text	
	Description and action		
01101012	\$3	An error was detected by the health check between the active BCU and the standby BCU.	
	<ul> <li>An error was detected during a health check between BCUs.</li> <li>[Action]</li> <li>1. The BCU board might not be inserted properly. If this message appears immediately after the board was replaced, check that it is properly inserted.</li> <li>2. Restart the BCU that is thought to be the cause of the failure. After the restart, if the same failure does not occur, no further action is required.</li> <li>3. After the restart, if the same failure occurs, replace the BCU of the restarted system.</li> <li>4. If the above action does not resolve the above problem, replace the BCU of the other system.</li> <li>5. If the above action does not resolve the above problem, replace the chassis.</li> </ul>		
01101013	83	An error was detected by a health check of the BCU.	
	<ul> <li>An error was detected by a health check of the BCU.</li> <li>[Action]</li> <li>1. The BCU board might not be inserted properly. If this message appears immediately after the board was replaced, check that it is properly inserted.</li> <li>2. Restart the BCU that is thought to be the cause of the failure. After the restart, if the same failure does not occur, no further action is required.</li> <li>3. After the restart, if the same failure occurs, replace the BCU of the restarted system.</li> </ul>		
01101014	S1	The BCU will be restarted because a hardware error was detected.	
	The BCU will restart because a hardware failure was detected. [Action] Replace the BCU.		
01101015	85	The BCU has been extracted.	
	Removal of a BCU was detected. [Action] The BCU might have been removed or might not be inserted properly. Make sure that the inserted properly.		
01101016	85	The BCU has been inserted.	
	Insertion of a BCU was detected. [Action] None.		
01211001	S4	The inlet temperature of the device dropped to 2 degrees C or less, and a low temperature warning was detected.	
	The intake temperature of the device dropped to 2 degrees Celsius or less, and a low-temperature warning was detected. [Action] Check and improve the environment around the device (for example, the room temperature).		
01211002	S6	The low temperature warning was cleared because the inlet temperature of the devic rose to 5 degrees C or more.	
	The intake temp the low-tempera [Action] None.	erature of the device rose to 5 degrees Celsius or more, so the device has recovered from ture warning.	

Message ID	Event level	Message text	
		Description and action	
01211003	S4	The inlet temperature of the device rose to 43 degrees C or more, and a high temperature warning was detected.	
	<ul> <li>The intake temperature of the device rose to 43 degrees Celsius or more, and a high-temperature warning was detected.</li> <li>[Action]</li> <li>1. Check and improve the environment around the device (for example, the ventilation and heat sources).</li> <li>2. Check the fans. If you find a failure, replace the fan unit containing the faulty fan.</li> </ul>		
01211004	S6	The high temperature warning was cleared because the inlet temperature of the devidence of	
	The intake temperature of the device dropped to 40 degrees Celsius or less, so the device has recovered from the high-temperature warning. [Action] None.		
01211005	S4	The inlet temperature of the device rose to 53 degrees C or more, and is approachi a high temperature that might affect device operation.	
	<ul> <li>The intake temperature of the device rose to 53 degrees Celsius or more, nearing the temperature that could affect the device operation.</li> <li>[Action]</li> <li>1. A malfunction might occur in the device. Immediately check and improve the environment around the device (for example, the ventilation and heat sources).</li> <li>2. Check the fans. If you find a failure, replace the fan unit containing the faulty fan.</li> </ul>		
01211006	S6	The inlet temperature of the device has been restored to 50 degrees C or less from temperature that could have affected device operation. Care must still be taken because the temperature is still over the recommended maximum.	
	<ul> <li>The intake temperature of the device has dropped to 50 degrees Celsius or less from a temperature that affects device operation. However, care must be taken because the temperature is still higher than the allowable range.</li> <li>[Action]</li> <li>1. Check and improve the environment around the device (for example, the ventilation and heat sources).</li> <li>2. Check the fans. If you find a failure, replace the fan unit containing the faulty fan.</li> </ul>		
01211007	\$3	The inlet temperature of the device rose to 65 degrees C or more, and has reached temperature that might severely damage the device.	
	<ul> <li>The intake temperature of the device rose to 65 degrees Celsius or more, and has reached a temperature that might severely damage the device.</li> <li>[Action]</li> <li>1. Immediately check and improve the environment around the device (for example, the ventilation and heat sources).</li> <li>2. Check the fans. If you find a failure, replace the fan unit containing the faulty fan.</li> </ul>		
01211008	S1	The BCU will stop because of a hardware failure.	
	The BCU will stop because a hardware failure was detected. [Action] Replace the BCU.		

Message ID	Event level	Message text	
	Description and action		
01211009	S6	The inlet temperature of the device rose to greater than or equal to the temperature s by the 'system temperature-warning-level' configuration command.(temperature = < <i>temperature&gt;</i> degrees C)	
	The intake temperature of the device rose to greater than or equal to the temperature that is set by using the system temperature-warning-level configuration command. • <temperature>: Temperature of the device (in Celsius). [Action]</temperature>		
	The temperature	e of the device has reached the specified temperature. Check the environment e device (for example, the condition of the fan, ventilation, and existence of the heat	
0121100a	S6	The inlet temperature of the device dropped 3 degrees C or more from the temperatu set by the 'system temperature-warning-level' configuration command.	
		berature of the device dropped by 3 degrees Celsius or more from the temperature set be mem temperature-warning-level configuration command.	
0121100b	S6	The mean inlet temperature of the device rose to greater than or equal to temperature set by the 'system temperature-warning-level average' configuration command.(temperature = <a temperature="" verage=""> degrees C)</a>	
	<ul> <li>The average intake temperature of the device rose to greater than or equal to the temperature that is set by using the system temperature-warning-level average configuration command.</li> <li><i>average temperature</i>&gt;Temperature of the device (in Celsius).</li> <li>[Action]</li> <li>The average intake temperature of the device has reached the specified temperature. Check the environment surrounding the device (for example, the condition of the fan, ventilation, and existence of the heat sources).</li> </ul>		
0122100c	83	Access to the BCU statistics failed.	
	Access to the total operating time for the BCU failed. [Action] This event does not affect communication and usual operation. However, you cannot use the operating time management function. If you want to use this function, replace the BCU.		
0122100d	<b>S</b> 6	Access to the BCU statistics finished successfully.	
	Access to the total operating time for the BCU is complete. [Action] None.		
0122100e	S4	The BCU-CPU memory usage exceeded 98%.	
	<ul> <li>[Action]</li> <li>1. If many use</li> <li>2. If there is a</li> <li>3. If there is to minimum n</li> <li>4. If the above</li> </ul>	memory usage exceeded 98%. rs are logged in, log out all but the most essential users. lot of use from ftp, disconnect all but the most essential connections. so much access from the network management device, limit the amount of access to the ecessary. excitons do not recover the system, the capacity limit of the Device might not be evise the network configuration.	
0122100f	<b>S</b> 6	The BCU-CPU memory usage fell below 95%.	
	The BCU-CPU [Action] None.	memory usage fell below 95%.	

Message ID	Event level	Message text	
		Description and action	
09200001	S1	The BCU will restart because a configuration software error occurred.	
	[Action] Check the log l	restart because a configuration software error occurred. by executing the show logging command. If the log indicates that another failure appropriate action according to the error message.	
09300001	<b>S</b> 1	The BCU will restart because a configuration software error occurred.	
	[Action] Check the log	restart because a configuration software error occurred. by executing the show logging command. If the log indicates that another failure appropriate action according to the error message.	
09400001	S1	The BCU will restart because a configuration software error occurred.	
	The BCU will restart because a configuration software error occurred. [Action] Check the log by executing the show logging command. If the log indicates that another failure occurred, take appropriate action according to the error message.		
09500001	S1	The BCU will restart because a configuration software error occurred.	
	The BCU will restart because a configuration software error occurred. [Action] Check the log by executing the show logging command. If the log indicates that another failure occurred, take appropriate action according to the error message.		
09600001	S1	The BCU will restart because a configuration software error occurred.	
	The BCU will restart because a configuration software error occurred. [Action] Check the log by executing the show logging command. If the log indicates that another failure occurred, take appropriate action according to the error message.		
25011001	S6	The port status is Up.	
	The port status is Up. [Action] None.		
25011002	S6	The port was inactivated by configuration.	
The port was ina [Action] None.		nactivated by the shutdown configuration command.	
25011003	S6	The port was activated by configuration.	
	The port was activated by the no shutdown configuration command. [Action] None.		
25011004	S6	The port was inactivated by an operation command.	
	The port was in [Action] None.	nactivated by the inactivate command.	

Message ID	Event level	Message text	
		Description and action	
25011005	S6	The port was activated by an operation command.	
	The port was a [Action] None.	ictivated by the activate command.	
25011201	85	An error was detected on the port.	
	[Action] 1. Make sure	letected on the port. that the specified cables are properly connected. that the remote device is running.	
35000101	S6	Past event information was initialized because the BCU was switched over from active to standby.	
	Past event information was initialized because the Device was switched from the active BCU to the standby BCU. This message appears only for at standby BCU. [Action] None.		
35010001	S1	The BCU will restart because a hardware error was detected.	
	The BCU will restart because a hardware failure was detected. [Action] Replace the BCU.		
35020401	S4	The PA memory usage exceeded 98%.	
	The PA memory usage exceeded 98%. [Action] If the PA memory usage does not drop for a long time, restart the BCU.		
35020402	S6	The PA memory usage fell below 95%.	
	The PA memory usage fell below 95%. [Action] None.		
350d0101	<b>S</b> 6	The HDC on the BCU will be updated. Do not remove the BCU.	
	The HDC (Hardware Dependent Code) will be updated. [Action] Do not remove the BCU.		
350d0102	S6	The BCU will restart because its HDC was updated.	
	The BCU will [Action] None.	restart because its HDC (Hardware Dependent Code) was updated.	
350d0103	\$3	The HDC update was unsuccessful on the BCU.	
	[Action] 1. Update the	rdware Dependent Code) update failed. HDC again by using the update software command. Ite fails again, the BCU might be the cause of the failure. Replace the BCU.	

Message ID	Event level	Message text	
		Description and action	
350e0201	S6	The PA online dump command was executed.	
	Collection of the is complete. [Action] None.	e memory dump, initiated by executing the PA dump (without a BCU restart) command,	
350e0203	<b>S</b> 6	Collection of the PA dump was canceled.	
	Collection of the [Action] None.	e dump was canceled.	

# 2.2 SFU

The following table shows the system messages of the SFU message type.

Table 2-2: System messages of the SFU message type

Message ID	Event level	Message text	
		Description and action	
35050001	S6	The SFU was activated by a configuration command.	
	The SFU was a [Action] None.	ctivated by the power enable configuration command.	
35050002	S6	The SFU was inactivated by a configuration command.	
	The SFU was inactivated by the no power enable configuration command. [Action] None.		
35050003	S5	The SFU has been extracted.	
	Removal of an SFU was detected. [Action] The SFU might have been removed or might not be inserted properly. Make sure that the SFU is inserted properly.		
35050004	S5	The SFU has been inserted.	
	Insertion of a SFU was detected. [Action] None.		
35050101	S6	The SFU initialization is complete.	
	The SFU initialization is complete. [Action] None.		
35050102	S6	The SFU termination is complete.	
	The SFU termin [Action] None.		
35050103	\$3	The SFU could not be initialized because the SFU was unknown.	
	<ul> <li>The SFU could not be initialized because the SFU was unknown.</li> <li>[Action]</li> <li>Make sure that the SFU is inserted properly.</li> <li>The software version does not support the SFU. Check the type of the SFU and the and replace the SFU or update the software.</li> <li>The Device does not support the SFU. Replace the SFU.</li> </ul>		
35050201	S1	The SFU will stop because of a hardware failure.	
	A hardware failure has been detected in the SFU. The SFU will now stop. [Action] Replace the SFU.		

Message ID	Event level	Message text		
	Description and action			
35050202	S1	A hardware failure was detected during SFU self-diagnosis. The SFU will restart.		
	[Action] After the restart	etected during SFU self-diagnosis. The SFU will restart. , check the messages and make sure the recovery from the failure was successful. If th ccessful, operations can resume. If the recovery failed, replace the SFU.		
35050203	S6	The SFU recovered from a hardware failure detected during self-diagnosis.		
	The SFU recove [Action] None.	ered from a failure detected during self-diagnosis.		
35050204	S1	The SFU will restart because of a hardware failure.		
	[Action] After the restart	start because a hardware failure occurred. , check the messages and make sure the recovery from the failure was successful. If th ccessful, operations can resume. If the recovery failed, replace the SFU.		
35050205	<b>S</b> 6	The SFU recovered from a hardware failure.		
	The SFU recove [Action] None.			
35050206	S1	The SFU restarted, but has not recovered from a hardware failure.		
	The SFU restarted, but has not recovered from the hardware failure or the failure detected during self-diagnosis. [Action] Replace the SFU.			
35050301	<b>S</b> 6	The HDC on the SFU will be updated. Do not remove the SFU.		
	The HDC (Hardware Dependent Code) will be updated. [Action] Do not remove the SFU until either of the following messages is displayed: • Message type: SFU Message ID: 35050302 • Message type: SFU Message ID: 35050304			
35050302	S6	The SFU will restart because its HDC was updated.		
The SFU will restart because its HDC (Hardware Dependent Code) was updat [Action] None.		start because its HDC (Hardware Dependent Code) was updated.		
35050303	83	The HDC update was unsuccessful on the SFU.		
	[Action] 1. Update the l	ware Dependent Code) update failed. HDC again by using the update software command. e fails again, the SFU might be the cause of the failure. Replace the SFU.		
35050304	S5	The HDC on the SFU was updated, and will be applied after restarting the SFU.		
	The HDC (Hard [Action] Restart the SFU	ware Dependent Code) was updated, but has not been applied to operations.		

Message ID	Event level	Message text	
	Description and action		
35050501	S3	Access to the SFU statistics failed.	
	Access to the total operating time for the SFU failed. [Action] This event does not affect communication and usual operation. However, you cannot use the total operating time management function. If you want to use this function, replace the SFU.		
35050502	S6	Access to the SFU statistics finished successfully.	
	Access to the total operating time for the SFU is complete. [Action] None.		
350e0501	S6	The SFU online dump command was executed.	
	Collection of the memory dump, initiated by executing the SFU dump (without an SFU restart) command, is complete [Action] None.		
350e0502	S6	The SFU offline dump command was executed.	
	Collection of the memory dump, initiated by executing the SFU dump (with an SFU restart) command is complete. [Action] None.		
350e0503	S6	Collection of the SFU dump was canceled.	
	Collection of the dump was canceled. [Action] None.		
35400501	S6	The SFU was inactivated by an operation command.	
	The SFU was inactivated by the inactivate command. [Action] None.		
35400502	S6	The SFU was activated by an operation command.	
	The SFU was a [Action] None.	ctivated by the activate command.	

# 2.3 PRU

The following table shows the system messages of the PRU message type.

# Table 2-3: System messages of the PRU message type

Message ID	Event level	Message text	
	Description and action		
35060001	S6	The PRU was activated by a configuration command.	
	The PRU was activated by the power enable configuration command. [Action] None.		
35060002	S6	The PRU was inactivated by a configuration command.	
	The PRU was inactivated by the no power enable configuration command. [Action] None.		
35060003	\$5	The PRU has been extracted.	
	Removal of a PRU was detected. [Action] The PRU might have been removed or might not be inserted properly. Make sure that the PRU is inserted properly.		
35060004	85	The PRU has been inserted.	
	Insertion of a PRU was detected. [Action] None.		
35060101	S6	The PRU initialization is complete.	
	The PRU initialization is complete. [Action] None.		
35060102	S6	The PRU termination is complete.	
	The PRU termination is complete. [Action] None.		
35060103	\$3	The PRU could not be initialized because the PRU was unknown.	
	<ul> <li>The PRU could not be initialized because the PRU was unknown.</li> <li>[Action]</li> <li>Make sure that the PRU is inserted properly.</li> <li>The software version does not support the PRU. Check the type of the PRU and the software version, and replace the PRU or update the software.</li> <li>The Device does not support the PRU. Replace the PRU.</li> </ul>		

Message ID	Event level	Message text	
	Description and action		
35060104	\$3	The PRU could not be initialized because the power supply was insufficient.	
	<ul> <li>The PRU could not be initialized because the power supply was insufficient.</li> <li>[Action]</li> <li>1. Check the implementation and operation status of the power supply unit. If the power supply units that are running normally are insufficient, add new power supply units. For details about how to add power supply units, see the <i>Hardware Instruction Manual</i>.</li> <li>2. After adding the power supply units, restart the PRU by using the activate pru command.</li> </ul>		
35060201	S1	The PRU will stop because of a hardware failure.	
	A hardware fai [Action] Replace the PR	lure was detected in the PRU. The PRU will now stop.	
35060202	S1	A hardware failure was detected during PRU self-diagnosis. The PRU will restart.	
	A failure was detected during PRU self-diagnosis. The PRU will now restart.		
	[Action] After the restart, check the messages and make sure the recovery from the failure was successful. If the recovery was successful, operations can resume. If the recovery failed, replace the PRU.		
35060203	S6	The PRU recovered from a hardware failure detected during self-diagnosis.	
	The PRU recovered from a failure detected during self-diagnosis. [Action] None.		
35060204	S1	The PRU will restart because of a hardware failure.	
	The PRU will restart because a hardware failure occurred. [Action] After the restart, check the messages and make sure the recovery from the failure was successful. If th recovery was successful, operations can resume. If the recovery failed, replace the PRU.		
35060205	S6	The PRU recovered from a hardware failure.	
	The PRU recovered from a hardware failure. [Action] None.		
35060206	S1	The PRU restarted, but has not recovered from a hardware failure.	
	The PRU restarted, but has not recovered from a hardware failure or a failure detected during self-diagnosis. [Action] Replace the PRU.		
35060208	S1	The PRU will restart because of a software failure.	
	The PRU will restart because a software failure occurred. [Action] After the restart, check the messages and make sure the recovery from the failure was successful. If the recovery was successful, operations can resume. If the recovery failed, replace the PRU.		
35060209	S6	The PRU recovered from a software failure.	
	The PRU recov [Action] None.	vered from a software failure.	

Message ID	Event level	Message text	
	Description and action		
3506020a	S1	The PRU restarted, but has not recovered from a software failure.	
	The PRU restarted, but has not recovered from a software failure. [Action] Replace the PRU.		
35060301	S6	The HDC on the PRU will be updated. Do not remove the PRU.	
	The HDC (Hardware Dependent Code) will be updated. [Action] Do not remove the PRU until either of the following messages is displayed: • Message type: PRU Message ID: 35060302 • Message type: PRU Message ID: 35060304		
35060302	S6	The PRU will restart because its HDC was updated.	
	The PRU will restart because its HDC (Hardware Dependent Code) was updated. [Action] None.		
35060303	S3	The HDC update was unsuccessful on the PRU.	
	<ul> <li>The HDC (Hardware Dependent Code) update failed.</li> <li>[Action]</li> <li>1. Update the HDC again by using the update software command.</li> <li>2. If the update fails again, the PRU might be the cause of the failure. Replace the PRU.</li> </ul>		
35060304	S5	The HDC on the PRU was updated, and will be applied after restarting the PRU.	
	The HDC (Hardware Dependent Code) was updated, but has not been applied to operations. [Action] Restart the PRU.		
35060401	S4	The PRU memory usage exceeded 98%.	
	The PRU memory usage exceeded 98%. [Action] If the PRU memory usage does not drop for a long time, restart the PRU.		
35060402	S6	The PRU memory usage fell below 95%.	
	The PRU memory usage fell below 95%. [Action] None.		
35060501	S3	Access to the PRU statistics failed.	
	Access to the total operating time for the PRU failed. [Action] This event does not affect communication and usual operation. However, you cannot use the total operating time management function. If you want to use this function, replace the PRU.		
35060502	S6	Access to the PRU statistics finished successfully.	
	Access to the total operating time for the PRU is complete. [Action] None.		

Message ID	Event level	Message text		
	Description and action			
350e0601	<b>S</b> 6	The PRU online dump command was executed.		
	Collection of the memory dump, initiated by executing the PRU dump (without a PRU restart) command, is complete. [Action] None.			
350e0602	S6	The PRU offline dump command was executed.		
	Collection of the memory dump, initiated by executing the PRU dump (with a PRU restart) command, is complete. [Action] None.			
350e0603	S6	Collection of the PRU dump was canceled.		
	Collection of t [Action] None.	he dump was canceled.		
35400601	S6	The PRU was inactivated by an operation command.		
	The PRU was inactivated by the inactivate command. [Action] None.			
35400602	\$6	The PRU was activated by an operation command.		
	The PRU was activated by the activate command. [Action] None.			
3f000001	S4	The number of shared resources exceeded the <i><percent></percent></i> % of the PRU capacity.		
	The usage amount for resources on the input side exceeded <i>&gt;percent&gt;</i> % of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>80, 85, 90, 95</li> </ul> <li>[Action] <ul> <li>Make sure that the amount of usage of resources on the input side does not exceed the capacity limit.</li> </ul> </li>			
3f000002	83	The number of shared resources has reached the capacity of the PRU.		
	The amount of usage of resources on the input side has reached the capacity limit. [Action] Review the system configuration. For details about the action to be taken when the usage exceeds the capacity limit, see the <i>Troubleshooting Guide</i> .			
3f000003	S6	The number of shared resources has fell below the <i><percent></percent></i> % of the PRU capacit		
	The amount of usage of resources on the input side has fallen below <i><percent></percent></i> % of the capacity limit <ul> <li><i><percent></percent></i>: percent</li> <li>75, 80, 85, 90, 95</li> </ul> <li>[Action] None.</li>			

Message ID	Event level	Message text	
	Description and action		
3f000004	S4	The number of outbound forwarding resources exceeded the <i><percent></percent></i> % of the PRU capacity.	
	of the capacity 1 • <i><percent></percent></i> : 80, 85, 90, 9 [Action]	percent 95 the number of entries being used in the Outbound forwarding resources table does no	
3f000005	S3	The number of outbound forwarding resources has reached the capacity of the PRU	
	The number of outbound forwarding resources has reached the capacity of the PKC The number of entries being used in the Outbound forwarding resources table has reached the capacit limit. [Action] Review the system configuration. For details about the action to be taken when the number of entries exceeds the capacity limit, see the <i>Troubleshooting Guide</i> .		
3f000006	S6	The number of outbound forwarding resources has fell below the <i><percent></percent></i> % of th PRU capacity.	
	The number of entries used in the Outbound forwarding resources table fallen below <i><percent></percent></i> % of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>75, 80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>None.</li>		
3f000007	S4	The number of destination resources exceeded the <pre>percent&gt;%</pre> of the PRU capacit	
The number of destination resources in use exceeded <i><percent></percent></i> % of the capacity 1 <ul> <li><i><percent></percent></i>: percent</li> <li>80, 85, 90, 95</li> </ul> <li>[Action] Make sure that the number of destination resources does not exceed the capacity line</li>		percent 95	
3f000008	S3	The number of destination resources has reached the capacity of the PRU.	
	The number of destination resources in use reached the capacity limit. [Action] Review the system configuration. For details about the action to be taken when the usage exceeds the capacity limit, see the <i>Troubleshooting Guide</i> .		
3f000009	<b>S</b> 6	The number of destination resources has fell below the <i><percent></percent></i> % of the PRU capacity.	
	The number of destination resources in use has fallen below <i><percent></percent></i> % of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>75, 80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>None.</li>		

Message ID	Event level	Message text	
	Description and action		
40100001	S4	Some advance access-lists cannot be set.	
	[Action]	cess-list could not be applied to a PRU interface. The PRU and then apply the flow detection mode, or delete the advance access-list that interface.	
40100002	S4	The number of filter entries exceeded <percent>% of the PRU capacity.</percent>	
	The number of filter entries exceeded <i><percent></percent></i> % of the capacity limit.  • <i><percent></percent></i> : percent 80, 85, 90, 95 [Action] To add more filter entries, make sure that the number of entries does not exceed the PRU capacity limit		
40100003	S3	The number of filter entries has reached the capacity of the PRU.	
	[Action]	filter entries has reached the capacity limit. tem configuration because entries added after the capacity limit is reached are not set.	
40100004	S3	The number of filter entries exceeded the PRU capacity.	
	The number of filter entries exceeded the capacity limit. [Action] Restart the PRU, and then apply the flow detection mode and flow distribution pattern.		
40100005	S6	The number of filter entries has fell below the <i><percent></percent></i> % of the PRU capacity.	
	The number of filter entries has fallen below <i><percent></percent></i> % of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>75, 80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>None.</li>		
40200001	S4	Some advance qos-flow-lists cannot be set.	
	A advance gos-flow-lists could not be applied to a PRU interface. [Action] Either restart the PRU and then apply the flow detection mode, or delete the advance gos-flow-list that is applied to the interface.		
40200002	S4	The number of QoS entries exceeded <percent>% of the PRU capacity.</percent>	
	<ul> <li>The number of QoS entries exceeded <percent>% of the capacity limit.</percent></li> <li><percent>: percent 80, 85, 90, 95</percent></li> <li>[Action]</li> <li>To add more QoS entries, make sure that the number of entries does not exceed the PRU of the P</li></ul>		
40200003	S3	The number of QoS entries has reached the capacity of the PRU.	
	The number of QoS entries has reached the capacity limit. [Action] Review the system configuration because entries added after the capacity limit is reached are not set.		
40200004	S3	The number of QoS entries exceeded the PRU capacity.	
		QoS entries exceeded the capacity limit.	
	[Action] Restart the PRI	J, and then apply the flow detection mode and flow distribution pattern.	

Message ID	Event level	Message text	
	Description and action		
40200005	S6	The number of QoS entries has fell below the <i><percent></percent></i> % of the PRU capacity.	
	The number o • <i><percent></percent></i> 75, 80, 85 [Action] None.		
41011001	84	The number of IPv4 unicast routing entries exceeded <i><percent></percent></i> % of the PRU capacity.	
	The number of IPv4 unicast routing entries exceeded <i><percent>%</percent></i> of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>When adding more IPv4 unicast routing entries, make sure that the number of entries does not exceed the PRU capacity.</li>		
41011002	S4	The number of IPv4 unicast routing entries has reached the capacity of the PRU.	
	The number of IPv4 unicast routing entries has reached the capacity limit. [Action] Review the system configuration because entries added after the capacity limit is reached are not set. For details about the action to be taken when the number of entries exceeds the capacity limit, see the <i>Troubleshooting Guide</i> .		
41011003	<b>S</b> 6	The number of IPv4 unicast routing entries has fell below the <i><percent></percent></i> % of the PR capacity.	
	The number of IPv4 unicast routing entries has fallen below <i><percent>%</percent></i> of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>75, 80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>None.</li>		
41012001	S4	The number of IPv6 unicast routing entries exceeded <i><percent></percent></i> % of the PRU capacity.	
	The number of IPv6 unicast routing entries exceeded <i><percent>%</percent></i> of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>When adding more IPv6 unicast routing entries, make sure that the number of entries does not exceed the PRU capacity.</li>		
41012002	S4	The number of IPv6 unicast routing entries has reached the capacity of the PRU.	
	The number of IPv6 unicast routing entries has reached the capacity limit. [Action] Review the system configuration because entries added after the capacity limit is reached are not set. For details about the action to be taken when the number of entries exceeds the capacity limit, see the <i>Troubleshooting Guide</i> .		

Message ID	Event level	Message text	
	Description and action		
41012003	S6	The number of IPv6 unicast routing entries has fell below the <i><percent></percent></i> % of the PRI capacity.	
	The number of IPv6 unicast routing entries has fallen below <i>&gt;percent&gt;</i> % of the capacity limit. • <i>&gt;percent&gt;</i> : percent 75, 80, 85, 90, 95 [Action] None.		
41021001	S4	The number of IPv4 multicast routing entries exceeded <i><percent></percent></i> % of the PRU capacity.	
	The number of IPv4 multicast routing entries exceeded <i><percent>%</percent></i> of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>When adding more IPv4 multicast routing entries, make sure that the number of entries does not exceed the PRU capacity.</li>		
41021002	S4	The number of IPv4 multicast routing entries has reached the capacity of the PRU	
	The number of IPv4 multicast routing entries has reached the capacity limit. [Action] Review the system configuration because entries added after the capacity limit is reached are not set. For details about the action to be taken when the number of entries exceeds the capacity limit, see the <i>Troubleshooting Guide</i> .		
41021003	\$6	The number of IPv4 multicast routing entries has fell below the <i><percent>%</percent></i> of the PRU capacity.	
	The number of IPv4 multicast routing entries has fallen below <i><percent>%</percent></i> of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>75, 80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>None.</li>		
41022001	84	The number of IPv6 multicast routing entries exceeded <i><percent></percent></i> % of the PRU capacity.	
	<ul> <li>The number of IPv6 multicast routing entries exceeded <percent>% of the capacity limit.</percent></li> <li><percent>: percent 80, 85, 90, 95</percent></li> <li>[Action]</li> <li>When adding more IPv6 multicast routing entries, make sure that the number of entries does not exceed the PRU capacity.</li> </ul>		
41022002	S4	The number of IPv6 multicast routing entries has reached the capacity of the PRU.	
	[Action] Review the syst	IPv6 multicast routing entries has reached the capacity limit. em configuration because entries added after the capacity limit is reached are not set it the action to be taken when the number of entries exceeds the capacity limit, see th g <i>Guide</i> .	

Message ID	Event level	Message text
		Description and action
41022003	S6	The number of IPv6 multicast routing entries has fell below the <i><percent></percent></i> % of the PRU capacity.
	The number of IPv6 multicast routing entries has fallen below <i><percent></percent></i> % of the capacity limit. <ul> <li><i><percent></percent></i>: percent</li> <li>75, 80, 85, 90, 95</li> </ul> <li>[Action]</li> <li>None.</li>	
41023001	S4	The total number of outgoing interfaces of multicast forwarding entries exceeded <i><percent></percent></i> % of PRU capacities.
	<ul> <li>The total number of downstream interfaces of multicast forwarding entries exceeded <percent>% of the capacity limit.</percent></li> <li><percent>: percent 80, 85, 90, 95</percent></li> <li>[Action]</li> <li>When adding more downstream interfaces to multicast forwarding entries, make sure that the number of the interfaces does not exceed the PRU capacity.</li> </ul>	
41023002	S4	The total number of outgoing interfaces of multicast forwarding entries has reached the capacity of the PRU.
	The total number of downstream interfaces of multicast forwarding entries has reached the capacity limit. [Action] Review the system configuration because downstream interfaces added after the capacity limit is reached are not set. For details about the action to be taken when the number of downstream interfaces exceeds the capacity limit, see the <i>Troubleshooting Guide</i> .	
41023003	S6	The total number of outgoing interfaces of multicast forwarding entries has fell below the <i><pre>percent&gt;%</pre></i> of the PRU capacity.
	The total numb <percent>% of • <percent>: 75, 80, 85, [Action] None.</percent></percent>	

### 2.4 NIF

The following table shows the system messages of the NIF message type.

Table 2-4: System messages of the NIF message type

Message ID	Event level	Message text	
		Description and action	
25010008	<b>S</b> 6	The port recovered from a hardware failure.	
	The port recove [Action] None.	red from a hardware failure.	
25010009	S1	The port restarted but has not recovered from a hardware failure.	
	The port restarte [Action] Replace the NIF	ed but has not recovered from a hardware failure.	
25010109	S1	The port will restart because of a hardware failure.	
	The port will restart because hardware failure occurred. [Action] After the restart, check the messages and make sure the recovery from the failure was successful. If the recovery was successful, operations can resume. If the recovery failed, replace the NIF.		
35070001	<b>S</b> 6	The NIF was activated by a configuration command.	
	The NIF was activated by the power enable configuration command. [Action] None.		
35070002	<b>S</b> 6	The NIF was inactivated by a configuration command.	
	The NIF was inactivated by the no power enable configuration command. [Action] None.		
35070003	S5	The NIF has been extracted.	
	Removal of a NIF was detected. [Action] The NIF might have been removed or might not be inserted properly. Make sure that the NIF is inserted properly.		
35070004	\$5	The NIF has been inserted.	
	Insertion of a NIF was detected. [Action] None.		
35070101	\$6	The NIF initialization is complete.	
	The NIF initialit [Action] None.	zation is complete.	

Message ID	Event level	Message text	
	Description and action		
35070102	S6	The NIF termination is complete.	
	The NIF termin [Action] None.	nation is complete.	
35070103	\$3	The NIF could not be initialized because the NIF was unknown.	
	<ul> <li>The The NIF could not be initialized because the NIF was unknown.</li> <li>[Action]</li> <li>1. Make sure that the NIF is inserted properly.</li> <li>2. The software version does not support the NIF. Check the type of the NIF and the software version and replace the NIF or update the software.</li> <li>3. The Device does not support the NIF. Replace the NIF.</li> </ul>		
35070104	S3	The NIF could not be initialized because the power supply was insufficient.	
	<ul> <li>The NIF could not be initialized because the power supply was insufficient</li> <li>[Action]</li> <li>1. Check the implementation and operation status of the power supply unit. If the power supply units that are running normally are insufficient, add new power supply units. For details about how to add power supply units, see the <i>Hardware Instruction Manual</i>.</li> <li>2. After adding the power supply units, restart the NIF by using the activate nif command.</li> </ul>		
35070201	S1	The NIF will stop because of a hardware failure.	
	A hardware failure was detected in the NIF. The NIF will now stop. [Action] Replace the NIF.		
35070202	S1	A hardware failure was detected during NIF self-diagnosis. The NIF will restart.	
	A failure was detected during NIF self-diagnosis. The NIF will restart. [Action] After the restart, check the messages and make sure the recovery from the failure was succe recovery was successful, operations can resume. If the recovery failed, replace the NIF.		
35070203	S6	The NIF recovered from a hardware failure detected during self-diagnosis.	
	The NIF recovered from a failure detected during self-diagnosis. [Action] None.		
35070204	<b>S</b> 1	The NIF will restart because of a hardware failure.	
	The NIF will restart because a hardware failure occurred. [Action] After the restart, check the messages and make sure the recovery from the failure was successful. If the recovery was successful, operations can resume. If the recovery failed, replace the NIF.		
35070205	S6	The NIF recovered from a hardware failure.	
	The NIF recovered from the hardware failure. [Action] None.		

Message ID	Event level	Message text	
	Description and action		
35070206	S1	The NIF restarted, but has not recovered from a hardware failure.	
	The NIF restart self-diagnosis. [Action] Replace the NII	ed, but has not recovered from a hardware failure or a failure detected during	
35070301	S6	The HDC on the NIF will be updated. Do not remove the NIF.	
	[Action] Do not remove • Message typ	tware Dependent Code) will be updated. the NIF until either of the following messages is displayed: pe: NIF Message ID: 35070302 pe: NIF Message ID: 35070304	
35070302	S6	The NIF will restart because its HDC was updated.	
	The NIF will restart because its HDC (Hardware Dependent Code) was updated. [Action] None.		
35070303	83	The HDC update was unsuccessful on the NIF.	
	<ul> <li>The HDC (Hardware Dependent Code) update failed.</li> <li>[Action]</li> <li>1. Update the HDC again by using the update software command.</li> <li>2. If the update fails again, the NIF might be the cause of the failure. Replace the NIF.</li> </ul>		
35070304	S5	The HDC on the NIF was updated, and to be applied after restarting the NIF.	
	The HDC (Hardware Dependent Code) was updated, but has not been applied to op [Action] Restart the NIF.		
35070501	\$3	Access to the NIF statistics failed.	
	[Action] This event does	tal operating time for the NIF failed. not affect communication and usual operation. However, you cannot use the total nanagement function. If you want to use this function, replace the NIF.	
35070502	S6	Access to the NIF statistics finished successfully.	
	Access to the total operating time for the NIF is complete. [Action] None.		
350e0701	S6	The NIF online dump command was executed.	
	Collection of the is complete [Action] None.	e memory dump, initiated by executing the NIF dump (without a NIF restart) comman	
350e0702	S6	The NIF offline dump command was executed.	
	Collection of th complete [Action] None.	e memory dump, initiated by executing the NIF dump (with a NIF restart) command,	

Message ID	Event level	Message text
		Description and action
350e0703	S6	Collection of the NIF dump was canceled.
	Collection of [Action] None.	the dump was canceled.
35400701	S6	The NIF was inactivated by an operation command.
	The NIF was [Action] None.	inactivated by the inactivate command.
35400702	S6	The NIF was activated by an operation command.
	The NIF was a [Action] None.	activated by the activate command.

### 2.5 PS

The following table shows the system messages of the PS message type.

Table 2-5: System messages of the PS message type

Message ID	Event level	Message text
		Description and action
01202001	S6	The power supply unit is normal.
	The power sup [Action] None.	ply unit is normal.
01202002	S1	A fatal error was detected in the power supply unit.
	[Action]	letected in the power supply unit. wer supply unit.
01202003	\$3	The power supply unit is not supported.
	[Action]	ower supply unit is not supported. rrent power supply unit with a supported model.
01202004	S6	The power supply unit is not connected.
	A power supply unit is not mounted. [Action] None.	
01202005	S6	The power supply unit is powered off.
	The power supply unit has stopped supplying power. [Action] None.	
01202006	\$3	A mix of AC and DC power supply units are mounted.
	A mix of AC and DC power supply units are mounted. [Action] Mount power supply units that are either all for AC power or all for DC power.	
01202007	S3	A mix of AC 100 V and AC 200 V power supply units are mounted.
	A mix of AC 100 V and AC 200 V power supply units are mounted. [Action] Mount power supply units that are either all AC 100 V AC or all AC 200 V.	
01202008	S6	The combination of power supply units is correct.
	The combination of mounted power supply units is correct. [Action] None.	
01202009	S3	The power supply is insufficient.
	[Action]	ply is insufficient. upply units so that sufficient power supply is available for use.

Message ID	Event level	Message text	
		Description and action	
0120200a	<b>S</b> 6	The power supply is now sufficient.	
	The power supp [Action] None.	ly is now sufficient.	
0120200b	S5	The power supply units are not in a redundant configuration.	
	redundancy-m [Action] When a redunda	Ity units are not in a redundant configuration. This message is output when the power node configuration command is set. Int power supply unit is required, check if the power supply status of the device is normation ow environment command.	
0120200c	<b>S</b> 6	The power supply units are in a redundant configuration.	
		The power supply units are in a redundant configuration. This message is output when the power redundancy-mode configuration command is set. [Action]	
0120200d	85	The power available is insufficient from input source A.	
	The power available is insufficient from input source A. This message is output when 2 (redundant power supply unit and redundant power feed) is specified by using the power redundancy-mode configuration command. [Action] When the redundant power feed is required, check if the power supply status of the device is normal by using the show environment command.		
0120200e	<b>S</b> 6	The power available is now sufficient from input source A.	
	The power available is now sufficient from input source A. This message is output if 2 (redund supply unit and redundant power feed) is specified by using the power redundancy-mode configuration command. [Action] None.		
0120200f	85	The power available is insufficient from input source B.	
	The power available is insufficient from input source B. This message is output if 2 (redundant power supply unit and redundant power feed) is specified by using the power redundancy-mode configuration command. [Action] If the redundant power feed is required, check if the power supply status of the device is normal by using the show environment command.		
01202010	<b>S</b> 6	The power available is now sufficient from input source B.	
	The power available is now sufficient from input source B. This message is output if 2 (redunda supply unit and redundant power feed) is specified by using the power redundancy-mode configuration command. [Action] None.		
01222011	83	Access to the power supply unit statistics failed.	
	[Action] This event does	tal operating time for the power supply unit failed. not affect communication and usual operation. However, you cannot use the total nanagement function. If you want to use this function, replace the power supply unit.	

Message ID	Event level	Message text
		Description and action
01222012	S6	Access to the power supply unit statistics finished successfully.
	Access to the to [Action] None.	tal operating time for the power supply unit is complete.

# 2.6 FAN

The following table shows the system messages of the FAN message type.

#### Table 2-6: System messages of the FAN message type

Message ID	Event level	Message text	
		Description and action	
01213001	S6	The fan unit is normal.	
	The fan unit is r [Action] None.	now operating normally.	
01213002	\$3	A problem occurred in a fan.	
	A problem occu [Action] Replace the fan	urred in a fan. Replace the fan unit.	
01213003	S1	The fan unit is not working.	
	[Action]	pped. Replace the fan unit immediately. unit immediately.	
01213004	S1	The fan unit is not connected.	
	<ol> <li>If you are no mount it.</li> <li>Make sure t</li> </ol>	not mounted. Eplacing the fan unit, continue with the replacement. It performing the replacement, check the mounting status. If the fan unit is not mount hat the fan unit is inserted properly. does not start the recovery, replace the fan unit.	
01213005	\$3	The fan unit is not supported.	
	The mounted fan unit is not supported. [Action] Replace the fan unit with a model that is supported by the device.		
01213006	S4	The fan speed was changed to high.	
	The fan speed was changed to high because of a fan failure. [Action] None.		
01213007	\$6	The fan speed has returned to normal.	
	High-speed operation of the fan was canceled. [Action] None.		
01213008	83	The fan speed failed to change.	
	The fan speed fa [Action] Replace the fan	-	

Message ID	Event level	Message text	
		Description and action	
01223009	\$3	Access to the fan unit statistics failed.	
	Access to the total operating time for the fan unit failed. [Action] Cooling functionality of the fan is not affected. However, you cannot use the total operating time management function. If you want to use this function, replace the fan unit.		
0122300a	S6	Access to the fan unit statistics finished successfully.	
	Access to the to [Action] None.	tal operating time for the fan unit is complete.	

# Chapter

# 3. Operation Management

- 3.1 SOFTWARE
- 3.2 CONFIG
- 3.3 ACCESS
- 3.4 NTP
- 3.5 SOP-KEY 3.6 SOP-RSP
- 3.7 SNMP

### 3.1 SOFTWARE

The following table shows the system messages of the SOFTWARE message type.

#### *Table 3-1:* System messages of the SOFTWARE message type

Message ID	Event level	Message text	
		Description and action	
01100001	S1	The BCU will be restarted because a software error occurred.	
	[Action] Check the log by	estart because a software error occurred. y executing the show logging command. If other failures are indicated in the log, take on according to the error message.	
01100002	85	The software versions of the active BCU and the standby BCU are different.	
	[Action] 1. There is no 2. In other case	problem if the active system and the standby system are different. problem if the software is being updated. es, update the software so that the software versions of the active system and the standby ch. For details about how to update the software, see the <i>Software Installation Guide</i> .	
01100003	S6	The mismatch of software versions recovered.	
	The inconsistency between the software versions of the active system and the standby system has been resolved. This message is displayed if, while the software versions do not match. the BCU of the other system goes down. [Action] None.		
01200002	S1	The BCU will be restarted because a software error occurred.	
	The BCU will restart because a software error occurred. [Action] Check the log by executing the show logging command. If other failures are indicated in the log, take appropriate action according to the error message.		
01220001	S3	Writing of temperature log data failed.	
	<ul> <li>Writing of the temperature log failed.</li> <li>[Action]</li> <li>1. Check the user area of the internal flash memory.</li> <li>2. If the free space is lacking, delete unnecessary files to ensure free space (approximately 8 KB).</li> </ul>		
01300001	85	The CPU usage statistics were initialized because a change in the system time of 5 seconds or more was detected.	
	The statistics table that holds the CPU usage was initialized because a time change of 5 seconds or more was detected. [Action] None.		
01400001	S6	The software started.	
	The software ha [Action] None.	is started.	

Message ID	Event level	Message text	
		Description and action	
01400002	S7	Reference logs will now be acquired.	
	The system star [Action] None.	ted collecting statistics logs.	
01400003	S1	The BCU will be restarted because a software error occurred.	
	The BCU will restart because a software error occurred. [Action] Check the log by executing the show logging command. If other failures are indicated in the log, take appropriate action according to the error message.		
01400004	\$6	All operation logs have been cleared.	
	All operation log entries were deleted. [Action] None.		
01400005	<b>S</b> 6	Operation logs of the specified message type were cleared. (message type = <message type="">)</message>	
	Operation logs of the <i><message type=""></message></i> message type were deleted. • <i><message type=""></message></i> : Message type [Action] None.		
01400006	82	The log control program (logCtl) restarted.	
	The log control program (logCtl) has restarted. The device outputs this message after the log control program is forcibly terminated and then automatically restarted. [Action] Collect the core file (logCtl.core file under /usr/var/core), log information, and the configuration of the log control program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
01400007	S2	The SYSLOG control program (logSyslogCtl) restarted.	
	The syslog transmission-control program (logSyslogCtl) has restarted. The device of when the syslog transmission-control program automatically restarts. [Action] Collect the core file (logSyslogctl.core file under /usr/var/core), log infor configuration of the syslog transmission-control program. For details about how to information, see the <i>Troubleshooting Guide</i> .		
01400008	S2	The Email control program (logEmailCtl) restarted.	
	when the email [Action] Collect the core configuration of	mission-control program (logEmailCtl) has restarted. The device outputs this messag transmission-control program automatically restarts. file (logEmailctl.core file under /usr/var/core), log information, and the f the e-mail transmission-control program. For details about how to collect the e the <i>Troubleshooting Guide</i> .	

Message ID	Event level	Message text
	Description and action	
01400009	S2	The sysmsg control program (logSysMsgCtl) restarted.
	The system message output-control program (logSysMsgCtl) has restarted. The device outputs this message when the system message output-control program automatically restarts. [Action] Collect the core file (logSysMsgctl.core file under /usr/var/core), log information, and the configuration of the system message output-control program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .	
01500001	S2	The SOP control program (sopd) restarted.
	program is forci [Action] Collect the core	I program (sopd) has restarted. The device outputs this message after the SOP control bly terminated and is then restarted automatically. file (sopd.core file under /usr/var/core), log information, and the configuration rol program. For details about how to collect the information, see the <i>Troubleshootin</i>
01600001	S1	The BCU will be restarted because a software error occurred.
	The BCU will restart because a software error occurred. [Action] Check the log by executing the show logging command. If other failures are indicated in the log, take appropriate action according to the error message.	
0200ff02	S2	The SNMP agent program (snmpd) restarted.
	The SNMP agent program (snmpd) has restarted. The device outputs this message after the SNMP agent program is forcibly terminated and is then restarted automatically. [Action] Collect the core file (snmpd.core file under /usr/var/core), log information, and the configuration of the SNMP agent program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> . The SNMP agent program will restart automatically. If it does not restart or if restarts occur frequently, restart the device.	
0201ff00	S2	The RMON program (rmon) restarted.
	is forcibly termi [Action] Collect the core of the RMON pr	gram (rmon) has restarted. The device outputs this message after the RMON program nated and is then restarted automatically. file (rmon.core file under /usr/var/core), log information, and the configuratio ogram. For details about how to collect the information, see the <i>Troubleshooting Guia</i> gram will restart automatically. If it does not restart or if restarts occur frequently, resta

Message ID	Event level	Message text	
	Description and action		
05000001	S2	The unicast routing program (rtm) was forced to stop. [(error = <error string="">)]</error>	
0500001	<ul> <li>The unicast rou</li> <li><error strin<br="">Cannot allo Blank: The [Action]</error></li> <li>Collect the configuration see the Tron</li> <li>If the cause memory, the been exceed</li> <li>If the cause causes, ch UNICAST) from the set of the set of the UNICAST of the set of the set of the set of the UNICAST of the set of the set of the set of the set of the UNICAST of the set of</li></ul>	The unleast fouring program (run) was forced to stop. [(error = <error string="">)] ting program (rtm) was forcibly terminated. g&gt;: Error cause cate memory: The program was forcibly terminated because of lack of memory. program was forcibly terminated because of other causes. core file (rtm.core file under /usr/var/core), log information, and the on of the IP unicast routing program. For details about how to collect the information <i>ibleshooting Guide</i>. of the error is The program was forcibly terminated because of lack of e error occurred because the memory area was full. Check if the capacity limit has not bed. If the capacity limit has not been exceeded, take action according to steps 3 and of the error is The program was forcibly terminated because of other eck whether other log messages related to the unicast routing protocol (message type have been issued. If such log messages have been issued, take action accordingly. nuse of the error is The program was forcibly terminated because of other</error>	
	causes, the	e unicast routing program restarts automatically. If the program does not restart or if in frequently, restart the device.	
05000002	<b>S</b> 6	The unicast routing program (rtm) restarted.	
	The unicast routing program (rtm) has restarted. The device outputs this message when the unicast routing program automatically restarts, or a restart is requested by the restart unicast command. [Action] None.		
05000003	S1	The BCU will restart because a software error occurred.	
	The BCU will restart because a software error occurred. [Action] Check the log by executing the show logging command. If other failures are indicated in the log, take appropriate action according to the error message.		
0b000001	82	The software update control program (upctld) restarted.	
	The update control program (upctld) has restarted. The device outputs this message control program automatically restarts. [Action] Collect the core file (upctld.core file under /usr/var/core) of the update control details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
0b000002	S2	The syslogd program (syslogd) restarted.	
	The syslog transmission program (syslogd) has restarted. The device outputs this messa syslog transmission program automatically restarts. [Action] Collect the core file (syslogd.core file under /usr/var/core) of the syslog transmis For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
0600003	82	The dualization file copy program (dupcopyd) restarted.	
	this message wh [Action] Collect the core	r managing file copying between BCUs (dupcopyd) has restarted. The device output then the program for managing file copying between BCUs automatically restarts. file (dupcopyd.core file under /usr/var/core) of the program for managing fil n BCUs. For details about how to collect the information, see the <i>Troubleshooting</i>	

Message ID	Event level	Message text	
		Description and action	
0b000004	S2	The log control program (krclogd) restarted.	
	message when t [Action] Collect the core	r transferring device information (krclogd) has restarted. The device outputs this the program for transferring device information automatically restarts. e file (krclogd.core file under /usr/var/core) of the program for transferring tion. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .	
0d00b001	S2	The DHCP/BOOTP relay agent program (dhcpd) restarted.	
		OTP relay agent program (dhcpd) has restarted. The device outputs this message whe DTP relay agent program automatically restarts.	
0e008014	S2	The VRRP program (vrrpd) restarted.	
	The VRRP program (vrrpd) has restarted. The device outputs this message when the VRRP program automatically restarts. [Action] Collect the core file (vrrpd.core file under /usr/var/core) of the VRRP program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
0f010001	S2	The IPv4 multicast routing program (pimd) restarted.	
	<ul> <li>The IPv4 multicast routing program (pimd) has restarted. The device outputs this message when the IPv4 multicast routing program automatically restarts.</li> <li>[Action]</li> <li>Check whether other log messages related to the IPv4 multicast routing program (message type: IPv4-PIM, IGMP) have been issued. If such log messages have been issued, take action according!</li> <li>The IPv4 multicast routing program will restart automatically. If it does not restart or if restarts occur frequently, restart the device.</li> <li>Collect the core file (pimd.core file under /usr/var/core), log information, and the configuration of the IPv4 multicast routing program. For details about how to collect the information, see the <i>Troubleshooting Guide</i>.</li> </ul>		
0f010002	S6	The IPv4 multicast routing program (pimd) restarted.	
	The IPv4 multicast routing program (pimd) has restarted. The device outputs this message when a restart is requested by the restart ipv4-multicast command. [Action] None.		
11110001	S2	The policy-based routing program (policyd) restarted.	
	The policy-based routing control program (policyd) has restarted. The device outputs this message when the policy-based routing control program automatically restarts. [Action] Collect the core file (policyd.core file under /usr/var/core) of the policy-based routing control program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
11110002	S6	The policy-based routing program (policyd) restarted.	
		ed routing control program (policyd) has restarted. The device outputs this message s requested by the restart policy-based-routing command.	

Message ID	Event level	Message text	
	Description and action		
19010001	S2	The IPv6 multicast routing program (pim6sd) restarted.	
	<ul> <li>IPv6 multicast r [Action]</li> <li>Check whet IPv6-PIM,</li> <li>The IPv6 m occur freque</li> <li>Collect the configuration</li> </ul>	cast routing program (pim6sd) has restarted. The device outputs this message when th routing program automatically restarts. her other log messages related to the IPv6 multicast routing program (message type: MLD) have been issued. If such log messages have been issued, take action accordingly ulticast routing program will restart automatically. If it does not restart or if restarts ently, restart the device. core file (pim6sd.core file under /usr/var/core), log information, and the on of the IPv6 multicast routing program. For details about how to collect the , see the <i>Troubleshooting Guide</i> .	
19010002	\$6	The IPv6 multicast routing program (pim6sd) restarted.	
	The IPv6 multicast routing program (pim6sd) has restarted. The device outputs this message when restart is requested by the restart ipv6-multicast command. [Action] None.		
1e001000	S2	The flow statistics program (flowd) restarted.	
	<ul> <li>The flow statistics agent program (flowd) was forcibly terminated.</li> <li>[Action]</li> <li>1. Collect core files (flowd.core file under /usr/var/core).</li> <li>2. The flow statistics agent program will restart automatically. If restarts occur frequently, restart the device.</li> </ul>		
1e001001	<b>S</b> 6	The flow statistics program (flowd) restarted.	
	The flow statistics agent program (flowd) has restarted. The device outputs this message when a restart is requested by the restart sflow command. [Action] None.		
1f01b021	S2	The DHCPv6 relay agent program (dhcp6_relay) restarted.	
	The DHCPv6 relay agent program (dhcp6_relay) has restarted. The device outputs this message when the DHCPv6 relay agent program automatically restarts. [Action] None.		
1f01b022	S6	The DHCPv6 relay agent program (dhcp6_relay) restarted.	
	The DHCPv6 relay agent program (dhcp6_relay) has restarted. The device outputs this message when a restart is requested by the restart ipv6-dhcp relay command. [Action] None.		
20120000	S2	The LACP program (lacpd) restarted.	
	automatically re [Action] Collect the core	gram (lacpd) has restarted. The device outputs this message when the LACP program estarts. file (lacpd.core file under /usr/var/core), log information, and the configuratio ogram. For details about how to collect the information, see the <i>Troubleshooting Guid</i>	

Message ID	Event level	Message text	
	Description and action		
20120001	\$6	The LACP program (lacpd) restarted.	
		gram (lacpd) has restarted. The device outputs this message when a restart is requeste lacp command.	
20140001	S2	The LLDP program (lldpd) restarted.	
	automatically re [Action] Collect the core	fram (lldpd) has restarted. The device outputs this message when the LLDP program estarts. file (lldpd.core file under /usr/var/core), log information, and the configuration of	
20140002	\$6	The LLDP program (lldpd) restarted.	
	The LLDP program (lldpd) has restarted. The device outputs this message when a r by the restart lldp command. [Action] None.		
20900001	S2	The CFM program (cfmd) restarted.	
	The CFM program (cfmd) has restarted. The device outputs this message when the CFM program automatically restarts. [Action] Collect the core file (cfmd.core file under /usr/var/core), log information, and the configuration of the CFM program. For details about how to collect the information, see the <i>Troubleshooting Guide</i>		
20900002	<b>S</b> 6	The CFM program (cdmd) restarted.	
	The CFM program (cfmd) has restarted. The device outputs this message when a restart is re the restart cfm command. [Action] None.		
25000001	\$6	The network interface management program (nimd) restarted.	
	The network interface manager program (nimd) has restarted. The device outputs this message when a restart is requested by the restart interface-manager command. [Action] None.		
25000002	S2	The network interface management program (nimd) restarted.	
	The network interface manager program (nimd) has restarted. The device outputs this message when the network interface manager program automatically restarts. [Action] Collect the core file (nimd.core file under /usr/var/core) of the network interface manager program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
27000001	S2	The accounting program (acctd) restarted.	
	The accounting program (acctd) has restarted. The device outputs this message when the accounting program automatically restarts, or a restart is requested by the restart accounting command. [Action] None.		

Message ID	Event level	Message text	
	Description and action		
27000002	S2	The accounting program (acctd) was forced to stop.	
	<ul> <li>The accounting program (acctd) was forcibly terminated.</li> <li>[Action]</li> <li>1. Collect the core file (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>.</li> <li>2. Delete the accounting settings from the configuration, and then make the settings again. For details about how to make the settings, see <i>Configuration Guide Vol. 1 For Version 12.1.</i></li> <li>3. After you perform step 2, if the accounting program is still forced to stop, restart the device.</li> </ul>		
35000001	S1	The BCU will restart because a software error occurred.	
	[Action] Check the log by	estart because a software error occurred. y executing the show logging command. If other failures are indicated in the log, tak on according to the error message.	
35020001	S1	The BCU will restart because a PA software error occurred.	
	The BCU will restart because a PA software error occurred. [Action] Check the log by executing the show logging command. If other failures are indicated in the log, take appropriate action according to the error message.		
37110001	S2	The queue control program (quectld) restarted.	
	The queue control program (quectld) has restarted. The device outputs this message when the queue control program automatically restarts. [Action] Collect the core file (quectld.core file under /usr/var/core) of the queue control program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
37110002	<b>S</b> 6	The queue control program (quectld) restarted.	
	The queue control program (quectld) has restarted. The device outputs this message when a restart is requested by the restart queue-control command. [Action] None.		
37410001	S2	The queue statistics program (queinfod) restarted.	
	The queue statistics control program (queinfod) has restarted. The device outputs this message when the queue statistics control program automatically restarts. [Action] Collect the core file (queinfod.core file under /usr/var/core) of the queue statistics control program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
37410002	<b>S</b> 6	The queue statistics program (queinfod) restarted.	
	The queue statistics control program (queinfod) has restarted. The device outputs this message when a restart is requested by the maintenance command. [Action] None.		
38000001	S2	The synchronization management program(dupctld) restarted.	
	[Action] Collect the core	r managing the information synchronized between BCUs (dupctld) was forced to resta file (dupctld.core file under /usr/var/core) of the program. For details about he information, see the <i>Troubleshooting Guide</i> .	

Message ID	Event level	Message text	
	Description and action		
38000002	S6	The synchronization management program(dupctld) restarted.	
	The program fo [Action] None.	r managing the information synchronized between BCUs (dupctld) has restarted.	
3a110001	S2	The filter and qosflow program (flowctld) restarted.	
	filter and QoS f [Action] Collect the core	boS flow program (flowctld) has restarted. The device outputs this message when the low program is forcibly terminated. file (flowctld.core file under /usr/var/core), log information, and the f the filter and QoS flow program. For details about how to collect the information, se <i>thing Guide</i> .	
3a110002	S6	The filter and qosflow program (flowctld) restarted.	
	The filter and QoS flow program (flowctld) has restarted. The device outputs this message when a restart is requested by the restart filter-qosflow command. [Action] None.		
3a510001	S2	The filter-qosflow statistics program (flowinfod) restarted.	
	The filter and QoS flow statistics control program (flowinfod) has restarted. The device outputs this message when the filter and QoS flow statistics control program automatically restarts. [Action] Collect the core file (flowinfod.core file under /usr/var/core) of the filter and QoS flow statistics control program. For details about how to collect the information, see the <i>Troubleshooting Guide</i> .		
3a510002	S6	The filter-qosflow statistics program (flowinfod) restarted.	
	The filter and QoS flow statistics control program (flowinfod) has restarted. The device outputs this message when a restart is requested by the maintenance command. [Action] None.		
3b000001	S2	The command-driver-interface-program (cmddrvif) restarted.	
	<ul><li>[Action]</li><li>1. If an operative terminated,</li><li>2. Collect the operation of the second seco</li></ul>	driver interface program has restarted. ion command exists that,during execution, displayed an error message and then re-execute the command. core file (cmddrvifd.core file under /usr/var/core) of the command driver ogram. For details about how to collect the information, see the <i>Troubleshooting Guid</i>	
3d008605	S2	The NTP program (ntpd) restarted.	
	automatically re [Action] Collect the core	am (ntpd) has restarted. The device outputs this message when the NTP program estarts. file (ntpd.core file under /usr/var/core) of the NTP program. For details about he information, see the <i>Troubleshooting Guide</i> .	

Message ID	Event level	Message text
		Description and action
3d008615	S2	The SNTP program (sntpd) restarted.
	automatically re [Action] Collect the core	ram (sntpd) has restarted. The device outputs this message when the SNTP program starts. file (sntpd.core file under /usr/var/core) of the SNTP program. For details about ne information, see the <i>Troubleshooting Guide</i> .

# 3.2 CONFIG

The following table shows the system messages of the CONFIG message type.

#### Table 3-2: System messages of the CONFIG message type

Message ID	Event level	Message text	
		Description and action	
09200003	\$3	Synchronization of the configuration files failed.	
	configuration be [Action] If the versions of	g of the redundant operation, the synchronization of running configuration and eing edited between the active BCU and standby BCU failed. If software for the active system and the standby system match, restart the standby BCU ng configuration and configuration being edited match those of the active BCU.	
09200004	S6	Configuration files were successfully synchronized between the active and standby systems.	
	At the beginning of the redundant operation, synchronization of running configuration and configuration being edited between the active BCU and standby BCU succeeded. [Action] None.		
09200005	S3	The active and standby configurations are different.	
	<ul> <li>If system switch ACH switch, or command, the n This message ap</li> <li>If the runnin and the stand</li> <li>If the runnin active BCU</li> <li>If the runnin of the BCU</li> <li>[Action]</li> <li>If the versio BCU so that BCU. (Runn as those of t</li> <li>If the versio</li> </ul>	ng configuration or configuration being edited has become inconsistent between the and the standby BCU: g configuration or configuration being edited has become inconsistent after the start up of the other system: ns of software for the active system and the standby system match, restart the standby t its running configuration and configuration being edited match those of the active ning configuration and configuration being edited of the standby BCU will be the same he active BCU.) ns of software are inconsistent between the active BCU and the standby BCU, match eversion of the active BCU to that of the standby BCU, and then restart the BCUs of	
09200006	This message ap • Configuration	The mismatch of configurations recovered. mismatch between the active BCU and the standby BCU has been solved. opears if either of the following conditions is met: ons of the active BCU and the standby BCU are now consistent. ons of the active BCU and the standby BCU are inconsistent, and a BCU went done.	

Message ID	Event level	Message text	
		Description and action	
09300003	S3	This system started with the default configuration file because the startup configuration file was corrupted or not found.	
	<ul> <li>This system started with the default configuration file because the startup configuration file was corrupted or not found.</li> <li>[Action]</li> <li>1. If you have saved the configuration file, apply the saved configuration file to the startup configuration file by using the copy command.</li> <li>2. If you have not saved the configuration file, create a new configuration file.</li> </ul>		
09300005	S3	The startup configuration file has a command syntax error. (line = < <i>line number</i> > syntax = < <i>error syntax</i> >)	
	configuration fil <ul> <li><li><li>encode</li> <li><li><li><error li="" synta<=""> <li>[Action]</li> </error></li></li></li></li></li></ul>	the running configuration was skipped because a syntax error was detected in the start le. er>: Line number of the target configuration command ax>: Syntax of the target configuration command tax of the target configuration command.	
09300006	83	An attempt to change the interface configuration failed. (NIF = $\langle nif no. \rangle$ )	
	<ul> <li>The setting of the configuration of an Ethernet interface for a NIF failed.</li> <li>&lt;<i>nif no.</i>&gt;: NIF number</li> <li>[Action]</li> <li>Remove the NIF, and then insert it again.</li> </ul>		
09300007	\$6	The interface configuration changed because a NIF was connected. (NIF/port = no. / <port no.="">)</port>	
	The configuration of the Ethernet interface was changed because NIF was installed. <ul> <li>&lt;<i>nif no.</i>&gt;: NIF number</li> <li>&lt;<i>port no.</i>&gt;: Port number</li> </ul> <li>[Action]</li> <li>None.</li>		
09300008	\$3	An automatic configuration command failed. (command = < <i>command</i> >)	
	Automatic setting of the configuration command failed. <ul> <li><command/>: Command name</li> </ul> <li>[Action]</li> <li>Manually set the corresponding command.</li>		
09300009	<b>S</b> 6	The configuration will now be rebuilt to update version.	
	The configuration [Action] None.	on will be reconfigured for the new version because software was updated.	
0930000b	S3	The command cannot be set because the maximum number of entries was exceeded (entry = <value1>, maximum number = <value2>)</value2></value1>	
	The command cannot be set because the maximum number of entries was exceeded. (entry = <value1>, maximum number = <value2>) • <value1>: Entry name • <value2>: Maximum value [Action]</value2></value1></value2></value1>		
		ware version to the version from before the update, and then modify the configuration	

Message ID	Event level	Message text		
		Description and action		
0930000c	S4	The ifIndex of the MIB was re-set.		
	Because MIB ifIndex could not be read from the startup configuration file, it was set again and applied to the running configuration. [Action] Check the MIB ifIndex value.			
0930000d	\$3	The interface type is different from a port of the NIF. (NIF/port = < <i>nif no.</i> >/< <i>port no.</i> >)		
	<ul> <li><nif no.="">:1</nif></li> <li><port no.="">:</port></li> <li>[Action]</li> <li>Delete the confid</li> </ul>	f the Ethernet interface differs between the NIF and the configuration. NIF number Port number guration of the Ethernet interface where inconsistency was found. The configuration cerface for a NIF is automatically generated.		
0930000e	S6	The NIF recovered from a mismatch with the interface configuration.		
	The configurati [Action] None.	The configurations of the installed NIF and Ethernet interface are now consistent. [Action]		
09400003	S6	The configuration commit mode was changed. (mode = < <i>mode</i> >)		
	<ul> <li>The configuration commit mode was changed.</li> <li><mode>: Configuration commit mode after the change         Auto commit: Auto-applied commit mode         Manual commit: Manual commit mode         [Action]         None.</mode></li> </ul>			
09600003	85	A lock on the configuration was released because access by a process took too long (process = <process name="">, pid = <process id="">, time = <time>)</time></process></process>		
	<ul> <li>was taking a lot</li> <li><process li="" no<=""> <li><process id<="" li=""> </process></li></process></li></ul>	onfiguration was released and the device was automatically recovered because a proces ng time to access the configuration. ame>: Occurrence process name l>: Occurrence process ID scurrence time (year/month/day hour:minute:second time zone)		
3a110003	S6	A flow table allocation configuration was changed. Restart all the PRUs.		
		•		
3a110004	S6	A flow detection mode configuration was changed. Restart all the PRUs.		

Message ID	Event level	Message text
		Description and action
3f000001	S6	A forwarding table allocation configuration was changed. Restart all the PRUs.
	Restart all the PRUs to apply the configuration of the route allocation pattern. If you have changed the configuration, make sure that you restart the PRU regardless of the det the distribution pattern. [Action] Restart all the PRUs to apply the configuration of the route allocation pattern. If you have changed the configuration, make sure that you restart the PRU regardless of the det the distribution pattern.	

## 3.3 ACCESS

The following table shows the system messages for the ACCESS message type.

#### Table 3-3: System messages of the ACCESS message type

Message ID	Event Message text level	
		Description and action
06000001	S5	Login was refused because the host address is unknown. (address = <i><ip address=""></ip></i> , kind = <i><kind></kind></i> )
	<ul> <li><ip address<="" li=""> <li><kind>: Co</kind></li> <li>[Action]</li> <li>1. There might permitted by address is </li> <li>2. If remote ac configuratio</li> <li>3. If you want configuratio</li> <li>4. If remote ac configuratio</li> </ip></li></ul>	to permit remote access from <i><ip address=""></ip></i> , specify access permissions in the n. cess from VRF <i><vrf id=""></vrf></i> is permitted, the configuration might be incorrect. Check the n. to permit remote access from VRF <i><vrf id=""></vrf></i> , specify access permissions in the
06000002	S5	Login failed. (user name = < <i>user name</i> >, address = < <i>ip address</i> >, kind = < <i>kind</i> >)
	<ul> <li>An attempt to log in from <i><ip address=""></ip></i> by using the <i><user name=""></user></i> account was made, but the login ot allowed.</li> <li><i><user name=""></user></i>: User name</li> <li><i><ip address=""></ip></i>: IPv4 address or IPv6 address</li> <li><i><kind></kind></i>: Connection type</li> </ul> [Action] <ol> <li>There might have been an unauthorized access (account authentication or password authentic failed) to the Device from a remote host permitted at the console or by the configuration. Checoperating status of the remote host that is permitted at the console or the configuration.</li> <li>This log data is collected even when a legitimate user executes an incorrect operation during Therefore, even if this log data is collected, the operating status of the remote host might be made.</li> <li>Check if the account is registered by using the username configuration command. (How to compare the show users command to find out if the user account exists.)</li> </ol>	
06000003	S5	Login was refused because too many users already logged in. (kind = $<$ kind $>$ )
	<ul> <li>An attempt to connect via a remote operation terminal was rejected because the maximum number of login users was exceeded.</li> <li><kind>: Connection type</kind></li> <li>[Action]</li> <li>Check the number of users who are currently logged in.</li> <li>If necessary, increase the upper limit for the number of users who can log in by the configuration.</li> </ul>	

Message ID	Event level	Message text
		Description and action
06005002	\$6	A user logged in. (user = < <i>user name</i> >, host = < <i>host</i> >, terminal = < <i>term</i> >, kind = < <i>kind</i> >)
	Console: C aux: AUX t • < <i>term</i> >: Ter ttyp0 or las	>: User name st ID s, IPv6 address, or host name: Remote operation terminal console terminal erminal rminal name rger : Remote operation terminal sole terminal X terminal
06005003	\$6	A user logged out. (user = <i><user name=""></user></i> , host = <i><host></host></i> , terminal = <i><term></term></i> , kind <i><kind></kind></i> )
	<ul> <li>A user logged out.</li> <li><ul> <li><u< td=""></u<></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>	
06020001	85	Login via the AUX port failed. (user = <i><user name=""></user></i> )
	<ul> <li><user name<br="">[Action]</user></li> <li>1. There might failed) durin</li> <li>2. This log data</li> </ul>	stablish a PPP link via the AUX port by using the <i><user name=""></user></i> account was rejecte >: User name : have been an unauthorized access (account authentication or password authentication ig a PPP access for the AUX port. a is collected even when a legitimate user executes an incorrect operation during log even if this log data is collected, the operating status might be normal.
06030001	S6	Local authentication succeeded. (kind = < <i>kind</i> >)
	Local authentication was performed and was successful for a user login request or request to change to the administrator mode (enable command). • <kind>: Connection type enable: Change to the administrator mode [Action] None.</kind>	

Message ID	Event level	Message text
		Description and action
06030002	S5	Local authentication failed. (kind = < <i>kind</i> >)
	<ul> <li>Local authentication was performed and was unsuccessful for a user login request or a request to chang to the administrator mode (enable command).</li> <li><kind>: Connection type enable: Change to the administrator mode [Action]</kind></li> <li>There might have been an unauthorized access to the Device from a remote host permitted by the configuration. Check the operating status of the remote host.</li> <li>This log data is collected even when a legitimate user executes an incorrect operation during login Therefore, even if this log data is collected, the operating status of the remote host might be normal.</li> </ul>	
06030003	S6	The RADIUS server approved the authentication request. (host = < <i>host</i> >, kind = < <i>kind</i> >)
	<ul> <li>RADIUS authentication was performed successfully for a user login request or request to change to the administrator mode (enable command).</li> <li><host>: IP address or host name of the RADIUS server</host></li> <li><kind>: Connection type enable: Change to the administrator mode [Action]</kind></li> <li>None.</li> </ul>	
06030004	85	The RADIUS server rejected the authentication request. (host = <host>, message from server = <message>, kind = <kind>)</kind></message></host>
	<ul> <li>RADIUS authentication was attempted for a user login request or request to change to the administrat mode (enable command), but the RADIUS server denied it.</li> <li><host>: IP address or host name of the RADIUS server</host></li> <li><message>: RADIUS server response message</message></li> <li><kind>: Connection type enable: Change to the administrator mode</kind></li> </ul> [Action] <ol> <li>There might have been an unauthorized access to the Device from a remote host permitted by th configuration. Check the operating status of the remote host.</li> <li>This log data is collected even when a legitimate user executes an incorrect operation during logi Therefore, even if this log data is collected, the operating status of the remote host might be norm Check the RADIUS server setting.</li></ol>	
06030005	85	The RADIUS server did not respond to the authentication request. (host = <host>, kind = <kind>)</kind></host>
	<pre>mode (enable</pre>	ntication was attempted for a user login request or request to change to the administrato command), but the RADIUS server did not respond. address or host name of the RADIUS server onnection type hange to the administrator mode configuration to make sure that the RADIUS server IP address is correct. configuration to make sure that the RADIUS server port number is correct.

Message ID	Event level	Message text	
	Description and action		
06030006	S3	The RADIUS server configuration is not defined. (kind = $$ )	
	<ul> <li>RADIUS authentication was attempted for a user login request or request to change to the administra mode (enable command), but a RADIUS server configuration has not been set up.</li> <li><kind>: Connection type enable: Change to the administrator mode [Action]</kind></li> <li>Check that a RADIUS configuration is set up.</li> <li>Make sure that acct only is specified for the RADIUS configuration and that authentication is a limited.</li> </ul>		
06030007	85	An invalid response was received from the authentication server. (host = $\langle host \rangle$ , kind = $\langle kind \rangle$ )	
	the administrate invalid.	CACS+ authentication was attempted for a user login request or request to change to r mode (enable command), but the response from RADIUS or TACACS+ server was	
	<ul> <li><host>: IP address or host name of RADIUS or TACACS+ server</host></li> <li><kind>: Connection type enable: Change to the administrator mode</kind></li> </ul>		
	[Action] Make sure that TACACS+ serv	the same RADIUS or TACACS+ key is specified for the Device and the RADIUS or er.	
06030008	85	RADIUS authentication failed. (kind = < <i>kind</i> >)	
	<ul> <li>RADIUS authentication was performed and was unsuccessful for a user login request or a change to the administrator mode (enable command).</li> <li><kind>: Connection type enable: Change to the administrator mode [Action]</kind></li> <li>If any other operation log messages for RADIUS authentication were output, refer to the</li> </ul>		
0603000a	S5	Communication with the RADIUS server failed. (host = < <i>host</i> >, kind = < <i>kind</i> >)	
	<ul> <li>Communication with the RADIUS server failed.</li> <li><host>: IP address or host name of the RADIUS server</host></li> <li><kind>: Connection type enable: Change to the administrator mode</kind></li> <li>[Action]</li> <li>Make sure that there is a route to the RADIUS server.</li> <li>If you are specifying a host name for the RADIUS server, make sure that name resoluperformed.</li> </ul>		
0603000b	S5	No command lists were successfully acquired from the RADIUS server. (kind = <kind>)</kind>	
	the RADIUS se • < <i>kind</i> >: Co [Action] Make sure that of	hand authorization was performed, but a command list was not properly obtained from rver. nnection type Class, Alaxala-Allow-Commands, and Alaxala-Deny-Commands are properly se server settings (vendor-specific settings for the Device).	

Message ID	Event level	Message text	
	Description and action		
06030013	86	The TACACS+ server approved the authentication request. (host = < <i>host</i> >, kind = < <i>kind</i> >)	
	<ul> <li>TACACS+ authentication was successfully performed for a user login request or request to change to the administrator mode (enable command).</li> <li><host>: IP address or host name of the TACACS+ server</host></li> <li><kind>: Connection type enable: Change to the administrator mode [Action] None.</kind></li> </ul>		
06030014	85	The TACACS+ server rejected the authentication request. (host = < <i>host</i> >, kind = < <i>kind</i> >)	
	administrator m • <host>: IP • <kind>: Co enable: Cl [Action] 1. There migh configuratio 2. This log dat Therefore, o</kind></host>	nentication was attempted for a user login request or request to change to the node (enable command), but the TACACS+ server denied it. address or host name of the TACACS+ server onnection type hange to the administrator mode t have been an unauthorized access to the Device from a remote host permitted by the on. Check the operating status of the remote host. It is collected even when a legitimate user executes an incorrect operation during login. Even if this log data is collected, the operating status of the remote host might be normal. EACACS+ server setting.	
06030015	85	The TACACS+ server did not respond to the authentication request. (host = $<$ host>, kind = $<$ kind>)	
	specification in change to the au • <host>: IP • <kind>: Co enable: Ch [Action]</kind></host>	hentication and command authorization (if there is a command authorization the TACACS+ configuration) were attempted for a user login request or request to dministrator mode (enable command), but the TACACS+ server did not respond. address or host name of the TACACS+ server ponnection type nange to the administrator mode iguration to make sure that the TACACS+ server IP address is correct.	
06030016	\$3	The TACACS+ server configuration is not defined. (kind = < <i>kind</i> >)	
	<ul> <li>TACACS+ authentication was attempted for a user login request or request to change to the administrator mode (enable command), but a TACACS+ server configuration has not bee</li> <li><kind>: Connection type enable: Change to the administrator mode</kind></li> <li>[Action]</li> <li>Make sure that a TACACS+ configuration is set up.</li> <li>Make sure that acct-only is specified for the TACACS+ configuration and the auther not limited.</li> </ul>		
06030018	85	TACACS+ authentication failed. (kind = $$ )	
	<ul> <li>TACACS+ authentication was performed and was unsuccessful for a user login request or request to change to the administrator mode (enable command).</li> <li><kind>: Connection type enable: Change to the administrator mode</kind></li> <li>[Action]</li> <li>If any other operation log messages for TACACS+ authentication were output, refer to them.</li> </ul>		

Message ID	Event level	Message text	
		Description and action	
0603001a	S5	Communication with the TACACS+ server failed. (host = < <i>host</i> >, kind = < <i>kind</i> >)	
	<ul> <li>Communication with the TACACS+ server failed.</li> <li><host>: IP address or host name of the TACACS+ server</host></li> <li><kind>: Connection type enable: Change to the administrator mode [Action]</kind></li> <li>Make sure that there is a route to the TACACS+ server.</li> <li>If you are specifying the TACACS+ server by using a host name, make sure that name resolut can be performed.</li> <li>Make sure that the TACACS+ server is turned on by using the port number set for the TACACS configuration.</li> <li>Make sure that the IP address of the Device is registered for the client IP address on the TACACS server side.</li> </ul>		
0603001b	85	No command lists were successfully acquired from the TACACS+ server. (kind = < <i>kind</i> >)	
	<ul> <li>TACACS+ command authorization was performed, but a command list was not properly obtained from the TACACS+ server.</li> <li><kind>: Connection type [Action]</kind></li> <li>Make sure that class, allow-commands, deny-commands are properly set in the TACACS+ server settings (vendor-specific setting for the Device).</li> </ul>		
0603001c	\$5	TACACS+ command authorization was rejected by the TACACS+ server. (host = < <i>host</i> >, kind = < <i>kind</i> >)	
	<ul> <li><host>: IP</host></li> <li><kind>: Co</kind></li> <li>[Action]</li> <li>Make sure the for the Deviation</li> </ul>	mand authorization was attempted, but was denied by the TACACS+ server. address or host name of the TACACS+ server nnection type hat the service name is correct in the TACACS+ server settings (vendor-specific settings ce). • settings on the TACACS+ server side.	
0603001d	\$3	A local authorization response had no content. (kind = $<$ kind $>$ )	
	<ul> <li>class or commat</li> <li><kind>: Co</kind></li> <li>[Action]</li> <li>Make sure that s</li> </ul>	l authorization was performed, but there is no user name and corresponding command nd list settings. nnection type settings for the command class (username view-class) and the command list ew, parser view, commands exec) are set correctly for users authenticated using local	

Message ID	Event level	Message text	
	Description and action		
27000011	S5	Accounting was temporarily stopped because too many accounting events caused some congestion.	
	Accounting event transmission is congested, and accounting of the login, logout, and commands was stopped temporarily. [Action] 1. Using the show accounting command, make sure that the RADIUS server or TACACS+ server		
	<ul> <li>is not issuing errors.</li> <li>2. Check the configuration for the RADIUS server or TACACS+ server that is issuing errors. Additionally, make sure that the settings on the RADIUS server or TACACS+ server side are correct.</li> </ul>		
	<ul> <li>The congested state will be resolved when any of the following occur:</li> <li>When the number of transmission queue accounting events decreases to 256, after transmission with the RADIUS server or TACACS+ server has recovered.</li> <li>You can check the number of transmission queue accounting events by checking the item displayed</li> </ul>		
	<ul> <li>in InQueue of the show accounting command.</li> <li>When the restart accounting command was executed</li> <li>When the following accounting-related configuration is changed: <ul> <li>aaa accounting exec</li> <li>aaa accounting commands</li> <li>radius-server</li> <li>tacacs-server</li> <li>ip address of interface loopback mode</li> </ul> </li> </ul>		
27000012	S6	Accounting was restarted because the congestion caused by the accounting events was cleared up.	
	The accounting event transmission has recovered from congestion, and accounting of login, logout, and commands resumed. [Action] None.		
27000013	85	Accounting failed. (number of failures = < <i>number</i> >)	
	<ul> <li>Accounting for the login, logout, and 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.</li> <li><i><number></number></i>: The number of consecutive failures [Action]</li> <li>Check if the configurations for the RADIUS server or TACACS+ server have been set.</li> <li>Check the configurations to make sure that the IP address for the RADIUS server or TACACS+ server or TACACS+ server is correct.</li> <li>Check the configurations to make sure that the port number for the RADIUS server or TACACS+ server or TACACS+ server is correct.</li> </ul>		

### 3.4 NTP

The following table shows the system messages of the  $\tt NTP$  message type.

### Table 3-4: System messages of the NTP message type

Message ID	Event level	Message text	
	Description and action		
3d008601	85	Synchronization with an NTP server was lost. (NTP server = <i><ip address=""></ip></i> )	
	• < <i>ip address</i> [Action] Use the show r	n with an NTP server was lost. >: IPv4 address of NTP server htp associations command to check the NTP status. If the non-synchronized state k the NTP configuration, NTP server operation status, and availability of	
3d008602	S5	An invalid packet from an NTP server was detected. (NTP server = <i><ip address=""></ip></i> )	
	An invalid packet from an NTP server was detected. • <i><ip address=""></ip></i> : IPv4 address of NTP server [Action] Check the NTP server.		
3d008603	\$5	The NTP server to synchronize with was not found.	
	An NTP server to synchronize with was not found. [Action] Check the NTP configuration, NTP server operation status, and availability of communication.		
3d008604	S6	It synchronized with the NTP server. (NTP server = <i><ip address=""></ip></i> )	
	Synchronization with the NTP server was successful. <ul> <li>&lt;<i>ip address</i>&gt;: IPv4 address of NTP server</li> </ul> <li>[Action]</li> <li>None.</li>		
3d008611	85	Synchronization with an SNTP server was lost. (SNTP server = < <i>ip address</i> >)	
	Synchronization with an SNTP server was lost. • <i><ip address=""></ip></i> : IPv4 address or IPv6 address of the SNTP server [Action] Check the SNTP server.		
3d008612	85	An invalid packet from an SNTP server was detected. (SNTP server = <i><ip address=""></ip></i>	
	<ul> <li>An invalid packet from an SNTP server was detected.</li> <li><ip address="">: IPv4 address or IPv6 address of the SNTP server</ip></li> <li>[Action]</li> <li>Check the SNTP server.</li> </ul>		
3d008613	85	The SNTP server to synchronize with was not found.	
	[Action]	r to synchronize with was not found. P configuration, NTP server operation status, and availability of communication.	

Message ID	Event level	Message text
		Description and action
3d008614	S6	It synchronized with the SNTP server. (SNTP server = <i><ip address=""></ip></i> )
	2	n with the SNTP server was successful. >: IPv4 address or IPv6 address of the SNTP server

### 3.5 SOP-KEY

The following table shows the system messages of the SOP-KEY message type.

### Table 3-5: System messages of the SOP-KEY message type

Message ID	Event level	Message text
		Description and action
01504000	S6	An inactivate operation for the board was selected. (board = <i><board></board></i> )
	• <board>: B Standby BC SFU<sfu no<br="">PRU<pru n<="" td=""><td>struction for <i><board></board></i> was selected. This message appears only for the active BCU loard type 'U: Standby BCU o.&gt;: SFU number o.&gt;: PRU number &gt;: NIF number</td></pru></sfu></board>	struction for <i><board></board></i> was selected. This message appears only for the active BCU loard type 'U: Standby BCU o.>: SFU number o.>: PRU number >: NIF number
01504001	S6	The inactivate operation was canceled.
	NO was selected [Action] None.	for the inactivate instruction. This message appears only for the active BCU.
01504002	S6	The inactivate operation was confirmed.
	YES was selecte [Action] None.	d for the inactivate instruction. This message appears only for the active BCU.
01504010	S6	An activate operation for the board was selected. (board = $<$ board $>$ )
	An activate instruction for <i><board></board></i> was selected. This message appears only for the active B <ul> <li><i><board></board></i>: Board type</li> <li>Standby BCU: Standby BCU</li> <li>SFU<i><sfu no.=""></sfu></i>: SFU number</li> <li>PRU<i><pru no.=""></pru></i>: PRU number</li> <li>NIF<i><nif no.=""></nif></i>: NIF number</li> <li>[Action]</li> <li>None.</li> </ul>	
01504011	S6	The activate operation was canceled.
NO was selected for t [Action] None.		for the activate instruction. This message appears only for the active BCU.
01504012	S6	The activate operation has been confirmed.
	YES was selecte [Action] None.	d for the activate instruction. This message appears only for the active BCU.
01504020	S6	The shutdown operation was canceled.
	NO was selected [Action] None.	for the shutdown instruction.

Message ID	Event level	Message text
		Description and action
01504121	S6	The shutdown operation was confirmed.
	YES was select [Action] None.	ed for the shutdown instruction.

### 3.6 SOP-RSP

The following table shows the system messages of the SOP-RSP message type.

### Table 3-6: System messages of the SOP-RSP message type

Message ID	Event level	Message text	
	Description and action		
01505000	S6	No board exists that can be inactivated.	
	There is no boa the active BCU [Action] None.	rd for which the inactivate operation can be performed. This message appears only fo	
01505001	S6	No board exists that can be activated.	
	There is no boar active BCU. [Action] None.	rd for which the activate operation can be performed. This message appears only for th	
01505002	S6	The port information cannot be displayed because no NIF is active.	
	The port inform BCU. [Action] None.	ation is not displayed because no NIF is active. This message appears only for the activ	
01505003	S6	The operation cannot be executed on the standby BCU.	
	The operation c [Action] None.	annot be executed on the standby BCU. This message appears only for the standby BCU	
01505004	S6	You will be returned to the Main Menu because the information could not be obtained	
	You will be returned to the Main Menu because the information could not be obtained. [Action] None.		
01505010	S6	The activate operation cannot be executed on the standby BCU.	
	The board activ [Action] None.	ate operation cannot be executed on the standby BCU.	
01505011	S6	The inactivate operation cannot be executed on the standby BCU.	
	The board inact [Action] None.	ivate operation cannot be executed on the standby BCU.	
01505012	S6	The activate operation cannot be executed. Try again.	
	The board activ [Action] None.	ate operation cannot be executed. Re-execute the command.	

Message ID	Event level	Message text	
	Description and action		
01505013	S6	The inactivate operation cannot be executed. Try again.	
	The board inac [Action] None.	stivate operation cannot be executed. Re-execute the command.	
01505014	S6	The specified board is already active. (board = <i><board></board></i> )	
	The specified board is already active. <ul> <li><board>: Board type</board></li> <li>Standby BCU: Standby BCU</li> <li>SFU<sfu no.="">: SFU number</sfu></li> <li>PRU<pru no.="">: PRU number</pru></li> <li>NIF<nif no.="">: NIF number</nif></li> </ul> [Action] If you specified the board correctly, you do not need to execute the command.		
01505015	S6	The specified board is already inactive.(board = <i><board></board></i> )	
	<ul> <li>The specified board is already inactive.</li> <li><board>: Board type</board></li> <li>Standby BCU: Standby BCU</li> <li>SFU<sfu no.="">: SFU number</sfu></li> <li>PRU<pru no.="">: PRU number</pru></li> <li>NIF<nif no.="">: NIF number</nif></li> <li>[Action]</li> <li>If you specified the board correctly, you do not need to execute the command.</li> </ul>		
01505016	S6	The specified board is already being initialized.(board = <i><board></board></i> )	
	The specified board is already being initialized.         • <board>: Board type         SFU<sfu no.="">: SFU number         PRU<pru no.="">: PRU number         NIF<nif no.="">: NIF number         [Action]         If you specified the board correctly, you do not need to execute the command.</nif></pru></sfu></board>		
01505017	S6	The specified board is disabled. (board = <i><board></board></i> )	
	The specified port is in the disable status due to the configuration. • <board>: Board type SFU<sfu no.="">: SFU number PRU<pru no.="">: PRU number NIF<nif no.="">: NIF number [Action] None.</nif></pru></sfu></board>		
01505018	S6	The specified board failed. (board = <i><board></board></i> )	
	PRU <pru< td=""><td></td></pru<>		

Message ID	Event level	Message text	
		Description and action	
01505019	S6	The specified board is not connected.(board = <i><board></board></i> )	
	The specified board is not mounted or is not used. • <i><board></board></i> : Board type Standby BCU: Standby BCU SFU <i><sfu no.=""></sfu></i> : SFU number PRU <i><pru no.=""></pru></i> : PRU number NIF <i><nif no.=""></nif></i> : NIF number [Action] None.		
0150501a	S6	There is not enough power supply for the specified board.(board = <i><board></board></i> )	
	• <board>: B PRU<pru n<="" td=""><td>ough power for the specified board. board type o.&gt;: PRU number &gt;: NIF number</td></pru></board>	ough power for the specified board. board type o.>: PRU number >: NIF number	
0150501b	<b>S</b> 6	The specified board is not supported. (board = <i><board></board></i> )	
	The specified board is not supported. • <board>: Board type SFU<sfu no.="">: SFU number PRU<pru no.="">: PRU number NIF<nif no.="">: NIF number [Action] None.</nif></pru></sfu></board>		
0150501c	<b>S</b> 6	The PRU that controls the specified NIF is not active. (NIF = $\langle nif no. \rangle$ )	
	The PRU that controls the specified NIF is not active. • < <i>nif no.</i> >: NIF number [Action] Activate the PRU.		
01505020	S6	The board will be stopped because of the shutdown operation.(board = <board>)</board>	
	The board will be stopped because a shutdown was requested.  • <board>: Board type Active BCU: Active BCU Both systems: Active BCU and standby BCU [Action] None.</board>		
01505021	S6	The shutdown operation cannot be executed on the standby BCU.	
	The shutdown operation cannot be executed on the standby BCU. [Action] None.		
01505022	S6	The shutdown operation cannot be executed. Try again.	
	The shutdown o [Action] None.	peration cannot be executed. Re-execute the command.	

Message ID	Event level	Message text	
		Description and action	
01505023	S6	The shutdown operation cannot be executed because the standby BCU is inactivated or not connected.	
	The shutdown of [Action] None.	opperation cannot be executed because the standby BCU has stopped or is not connected.	
01505024	S6	The shutdown operation cannot be executed because the standby BCU is booting or fault.	
	The shutdown of [Action] None.	operation cannot be executed because the standby BCU is starting or has failed.	

### 3.7 SNMP

The following table shows the system messages of the SNMP message type.

### Table 3-7: System messages of the SNMP message type

Message ID	Event level	Message text		
		Description and action		
02000300	S5	An incorrect instance value was specified.		
	[Action]	stance value (set when specifying MIB settings) was specified. he instance value.		
02000301	S5	A specified MIB value is outside the valid range.		
	[Action] For details about	A specified MIB value (set when specifying MIB settings) is outside the valid range. [Action] For details about the range of MIB values, see 13. SNMP in the manual Configuration Command Reference Vol. 1 For Version 12.1.		
02000302	S5	The data length of the MIB value is too long.		
	The data length of an MIB value (set when specifying MIB settings) is too long. [Action] For details about the number of characters that can be set for a MIB value, see 13. SNMP in the manual Configuration Command Reference Vol. 1 For Version 12.1.			
02000303	\$5	One or more invalid characters were used in a MIB setting.		
	You attempted to set up the MIB by using invalid characters. [Action] Check the character code list in <i>1. Reading the Manual</i> in the manual <i>Configuration Command</i> <i>Reference Vol. 1 For Version 12.1</i> , and set up the MIB.			
02000304	\$3	A MIB value was not set because an error occurred during editing of the configuration.		
	A MIB value was not set because an error occurred during editing of the configuration (when specifying the MIB settings). [Action] For details on configuration errors, see <i>Error Messages Displayed When Editing the Configuration</i> in the <i>Configuration Command Reference</i> .			
02000305	<b>S</b> 6	A request set an object for a MIB value. (object = < <i>object name</i> >, MIB value = < <i>mia</i> <i>value</i> >, source SNMP manager = < <i>ip address</i> >)		
	<object name=""> was set to <mib value=""> because of a request from the SNMP manager <ip address="">. <ul> <li><object name="">: MIB object mnemonic</object></li> <li><mib value="">: MIB value</mib></li> <li><ip address="">: IPv4 or IPv6 address of the SNMP manager</ip></li> </ul> [Action] None.</ip></mib></object>			

Message ID	Event level	Message text	
		Description and action	
0200ff00	S5	The SNMP agent program received a packet with an unexpected community name. (source SNMP manager = <i><ip address=""></ip></i> , community name = <i><community name=""></community></i> )	
	<ul> <li>the SNMP mana</li> <li><ip address<="" li=""> <li><community< li=""> <li>[Action]</li> <li>An SNMP mana</li> <li>the Device. This</li> <li>not match the IF</li> <li>configuration.</li> <li>Check the company</li> <li>Check the company</li> <li>If they do not solve solve</li></community<></li></ip></li></ul>	threceived a packet that had the unexpected community name < <i>community name</i> > from neger < <i>ip address</i> >. >: IPv4 or IPv6 address of the SNMP manager <i>p name</i> >: Community name neger that the configuration does not authorize to access the Device attempted to access the message is output if the IP address and the community name of the SNMP manager do P address and the community name of an SNMP manager that is authorized by the configuration to make sure that the IP address and the community name of the SNMP t is attempting to access the Device are identical to < <i>ip address</i> > and < <i>community</i> pot match, unauthorized access might be taking place. Contact the administrator of the ager at < <i>ip address</i> > to prevent the SNMP manager from accessing the Device. presses repeated output to the operation log of access from an unauthorized IP address	
		A maximum of 16 unauthorized IP addresses are saved and, for each saved IP address, 28 unauthorized access attempts is output to the log.	
0200ff01	S5	The specified MIB does not exist, or does not have the read/write attribute.	
	[Action]	fied MIB does not exist, or the MIB does not have read and write attributes. MIB Reference For Version 12.1, and make sure that the specified MIB has read and	

### Chapter 4. Network Interfaces

4.1 PORT4.2 ChGr

### 4.1 PORT

The following table shows the system messages of the PORT message type.

Table 4-1: System messages of the PORT message type

Message ID	Event level	Message text
		Description and action
25010001	S6	The port status is Up.
	The port is up. [Action] None.	
25010002	S5	Reception of frames at a port failed many times because of problems with the port.
	<ul> <li>Frame reception at the corresponding port failed multiple times because of errors such as from noise [Action]</li> <li>1. Make sure that the cables have no problem.</li> <li>2. If the cables are normal, check the connected devices.</li> </ul>	
25010003	S5	Sending of frames to a port failed many times because of problems with the port.
	<ul> <li>Frame transmission at the corresponding port failed multiple times because of [Action]</li> <li>Make sure that the cables have no problem.</li> <li>If the cables are normal, check the connected devices.</li> </ul>	
25010004	S6	The port was inactivated by configuration.
	The port was sto [Action] None.	opped by the shutdown configuration command.
25010005	S6	The port was activated by configuration.
	The port was started by the no shutdown configuration command. [Action] None.	
25010006	S6	The port was inactivated by an operation command.
	The port was stopped by the inactivate command. [Action] None.	
25010007	S6	The port was activated by an operation command.
	The port was sta [Action] None.	urted by the activate command.

Message ID	Event level	Message text	
		Description and action	
25010101	85	An error was detected on the port.	
	<ul> <li>[Action]</li> <li>For 10BASE-T,</li> <li>1. Make sure t</li> <li>2. Make sure t</li> <li>3. Execute the problem.</li> <li>For 1000BASE-1. Make sure t cables are c</li> <li>2. If an optical</li> <li>3. Make sure t</li> </ul>	ected at the ports. 100BASE-TX, or 1000BASE-T: hat the specified cables are properly connected. hat the partner device has finished starting up. test interfaces command, and make sure that the devices and cables have no -X, 10GBASE-R, or 100GBASE-R: hat the specified cables are properly connected. Make sure that the end sections of the lean. If they are dirty, clean them. attenuator is used, check the attenuation value. hat the partner device has finished starting up. test interfaces command, and make sure that the devices and cables have no	
25010102	S5	The transceiver is not inserted properly. moval was detected.	
	The transceiver might have been removed or might not have been properly inserted. Make sure that the transceiver is properly inserted into the device.		
25010103	S5     Auto-negotiation failed.       Auto-negotiation failed.     [Action]       1. Check the auto-negotiation settings.     2. Make sure that the cables have no problem.       3. If the cables are normal, check the connected devices.		
25010104	S5	The unsupported transceiver was detected.	
	An unsupported transceiver was detected. [Action] Insert a supported transceiver.		
25010105	85	The inserted transceiver was detected.	
	Insertion of a transceiver was detected. [Action] None.		
25010106	S1	The transceiver stopped because of a failure in its hardware.	
	A transceiver failure was detected. The transceiver will be stopped. [Action] Replace the transceiver.		
35050208	85	All ports were stopped, because there are not enough active SFUs.	
	active SFUs. [Action]	pped because packet forwarding via the Device became impossible due to insufficier	

Message ID	Event level	Message text
		Description and action
35050209	S6	All ports were started, because there are enough active SFUs.
	All the ports sta active SFUs. [Action] None.	rted because packet forwarding via the Device became possible after an increase in

### 4.2 ChGr

The following table shows the system messages of the ChGr message type.

### Table 4-2: System messages of the ChGr message type

Message ID	Event level	Message text		
		Description and action		
20120002	S6	The status of channel group is Up.		
	The channel gro [Action] None.	bup status was changed to Up.		
20120003	S5	The channel group is Down because all ports were detached.		
	The channel gro [Action] None.	bup status was changed to Down because all ports in the channel group are detached.		
20120004	85	The channel group is Down because the number of detached ports exceeded the configured number.		
	group exceeded [Action]	The channel group status was changed to Down because the number of detached ports in the channel group exceeded the set limit. [Action] Check the line connection status of the partner device.		
20120005	<b>S</b> 6	A command disabled the channel group.		
	The channel group was disabled by the shutdown configuration of the channel group. [Action] None.			
20120006	<b>S</b> 6	A command enabled the channel group.		
	The channel group was released from the disabled state by the no shutdown configuration of the channel group. [Action] None.			
20120007	85	The port was detached from the channel group because different partner system II were detected. (NIF/port = $<$ nif no.>/ $<$ port no.>)		
	<ul> <li>The port was detached from the channel group because the no matches for the system ID of a partner device were found among the ports for LACP mode link aggregation.</li> <li>&lt;<i>nif no.</i>&gt;: NIF number</li> <li>&lt;<i>port no.</i>&gt;: Port number</li> <li>[Action]</li> <li>Make sure that the connection with and the system ID for the partner device are correct.</li> </ul>			
20120008	S5	The port was detached from the channel group because the partner key do not mate (NIF/port = $\langle nif no. \rangle / \langle port no. \rangle$ )		
	<pre>port was detach</pre>	tner device does not match between the ports for LACP mode link aggregation, and the d from the channel group. NIF number Port number the connection with and the key for the partner device are correct.		

Message ID	Event level	Message text	
	Description and action		
20120009	S6	The port was removed from the channel group. (NIF/port = $\langle nif no. \rangle / \langle port no. \rangle$ )	
	• < <i>nif no.</i> >: 1	<ul> <li>A port was detached from the channel group because a configuration link was deleted.</li> <li>&lt;<i>nif no.</i>&gt;: NIF number</li> <li>&lt;<i>port no.</i>&gt;: Port number</li> <li>[Action]</li> </ul>	
20120010	\$5	The port was detached from the channel group because the port status is Down. (NIF port = $\langle nif no. \rangle / \langle port no. \rangle$ )	
	<ul> <li><nif no.="">: 1</nif></li> <li><port no.="">:</port></li> <li>[Action]</li> </ul>		
20120011	S5	The port was detached from the channel group because other ports have faster data speeds. (NIF/port = $<$ nif no. $>/<$ port no. $>$ )	
	detached from t • < <i>nif no.</i> >: 1 • < <i>port no.</i> >: [Action]		
20120012	S5	The port was detached from the channel group because the port is half duplex. (NII port = $\langle nif no. \rangle / \langle port no. \rangle$ )	
	<ul> <li>Lines operating in half-duplex mode were detached from the channel group.</li> <li>&lt;<i>nif no.</i>&gt;: NIF number</li> <li>&lt;<i>port no.</i>&gt;: Port number</li> <li>[Action]</li> <li>Check the line connection status of the Device and the partner device for problems such as physical disconnection.</li> </ul>		
20120013	S5	The port was detached from the channel group because connection was denied by th LACP partner. (NIF/port = <i><nif no.="">/<port no.=""></port></nif></i> )	
	<ul> <li>In LACP mode link aggregation, a connection from the partner device was denied due to LACP, and the port was detached from the channel group.</li> <li>&lt;<i>nif no.</i>&gt;: NIF number</li> <li>&lt;<i>port no.</i>&gt;: Port number</li> <li>[Action]</li> <li>Check the status of the partner device.</li> </ul>		
20120014	85	The port was detached from the channel group because of an LACPDU timeout. (NII port = $\langle nif no. \rangle / \langle port no. \rangle$ )	
	<pre>port was detach</pre>	link aggregation, the port did not receive an LACPDU from the partner device, and th ed from the channel group because of a timeout. NIF number Port number s of the partner device.	

Message ID	Event level	Message text	
	Description and action		
20120015	S6	The port was detached from the channel group because of a configuration change. (NIF/port = < <i>nif no.</i> >/< <i>port no.</i> >)	
	• < <i>nif no.</i> >:	ached from the channel group because of a configuration change. NIF number : Port number	
20120016	85	The port was detached from the channel group because the port was moved. (NIF/pe = $\langle nif no. \rangle / \langle port no. \rangle$ )	
	• <nif no.="">: 1</nif>	ached from the channel group because the port was moved in the channel group. NIF number : Port number	
20120017	85	The port was detached from the channel group because the partner aggregation bit FALSE. (NIF/port = $<$ nif no. $>/<$ port no. $>)$	
	the channel gro • < <i>nif no.</i> >:	h bit of the partner device in the LACP mode was false, and the port was detached fro oup. NIF number : Port number	
20120018	S5	The port was detached from the channel group because the partner port number w changed. (NIF/port = <i><nif no.="">/<port no.=""></port></nif></i> )	
	The port number of the partner device was changed, and the port was detached from the channel group <ul> <li><nif no.="">: NIF number</nif></li> <li><port no.="">: Port number</port></li> </ul> [Action] None.		
20120019	85	The port was detached from the channel group because the partner port priority w changed. (NIF/port = <i><nif no.="">/<port no.=""></port></nif></i> )	
	The port priority of the partner device was changed, and the port was detached from the channel group <ul> <li>&lt;<i>nif no.</i>&gt;: NIF number</li> <li>&lt;<i>port no.</i>&gt;: Port number</li> </ul> [Action] None.		
20120020	85	The port was detached from the channel group because of a detach port limit operation. (NIF/port = $\langle nif no. \rangle / \langle port no. \rangle$ )	
	• <nif no.="">: 1</nif>	ached from the channel group by the port-detachment restriction functionality. NIF number : Port number	

Message ID	Event level	Message text
	Description and action	
20120021	S6	The port was added to the channel group. (NIF/port = < <i>nif no.</i> >/< <i>port no.</i> >)
	A port was added to the channel group. • < <i>nif no.</i> >: NIF number • < <i>port no.</i> >: Port number [Action] None.	
20120022	S6	The port was attached to the channel group. (NIF/port = $< nif no. > / < port no. >$ )
	• <nif no.="">:]</nif>	regated to the channel group. NIF number : Port number
20120023	S6	The standby port became active. (NIF/port = $< nif no. > / < port no. >$ )
	Operation by a standby link has started. • < <i>nif no.</i> >: NIF number • < <i>port no.</i> >: Port number [Action] None.	
20120024	S6	The port detached from the channel group became the standby port. (NIF/port = $\langle nij no. \rangle / \langle port no. \rangle$ )
	Operation by a standby link has stopped. <ul> <li><nif no.="">: NIF number</nif></li> <li><port no.="">: Port number</port></li> </ul> <li>[Action] None.</li>	
20120025	S6	The port cannot attach because of non-revertive function. (NIF/port = < <i>nif no.</i> >/ < <i>port no.</i> >)
	<ul> <li><nif no.="">: ]</nif></li> <li><port no.=""></port></li> <li>[Action]</li> </ul>	aggregated because Reversion Suppression activated. NIF number : Port number ear channel-group non-revertive command to aggregate lines.

# Chapter 5. Network Management

5.1 CFM

### 5.1 CFM

The following table shows the system messages of the CFM message type.

Table 5-1: System messages of the CFM message type

Message ID	Event level	Message text		
		Description and action		
20900003	S3	The number of Remote MEP entries exceeded the total Remote MEP capacity.		
	[Action]	remote MEPs exceeds the capacity limit. he number of remote MEPs does not exceed the capacity limit.		
20900004	S5	An OtherCCM failure was detected in MEP. (Domain Level = < <i>level</i> >, MA = < <i>no.</i> >, MEP = < <i>mepid</i> >)		
	The relevant MEP detected a fault (OtherCCM). • <level>: Domain level • <no.>: MA identification number • <mepid>: MEP ID [Action] A partner device is not recognized as the same MA. Check that the domain level, MA ID, domain name, and MA name match the partner devices.</mepid></no.></level>			
20900005	S5	An ErrorCCM failure was detected in MEP. (Domain Level = < <i>level</i> >, MA = < <i>no.</i> >, MEP = < <i>mepid</i> >)		
	The relevant MEP detected a fault (ErrorCCM). • <level>: Domain level • <no.>: MA identification number • <mepid>: MEP ID [Action] A partner device and the configuration do not match. Check whether the MEP ID is different from the partner device, and make sure the send interval (interval) matches that of the partner device.</mepid></no.></level>			
20900006	S5	A Timeout failure was detected in MEP. (Domain Level = < <i>level</i> >, MA = < <i>no.</i> >, MEP = < <i>mepid</i> >)		
	The relevant MEP detected a fault (Timeout). <ul> <li><level>: Domain level</level></li> <li><no.>: MA identification number</no.></li> <li><mepid>: MEP ID</mepid></li> </ul> [Action] A timeout occurred while receiving a CCM from the partner device. Check the network status.			
20900007	S5	A PortState failure was detected in MEP. (Domain Level = < <i>level</i> >, MA = < <i>no.</i> >, MEP = < <i>mepid</i> >)		
	<ul> <li><level>: Dc</level></li> <li><no.>: MA</no.></li> <li><mepid>: M</mepid></li> <li>[Action]</li> </ul>	identification number IEP ID red while receiving a CCM from the partner device.		

Message ID	Event level	Message text	
		Description and action	
20900008	S5	An RDI failure was detected in MEP. (Domain Level = < <i>level</i> >, MA = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	The relevant MEP detected a fault (RDI). • < <i>level</i> >: Domain level • < <i>no</i> .>: MA identification number • < <i>mepid</i> >: MEP ID [Action] A fault was detected in a partner device. Check the status of the partner device.		
20900009	S5	A Mismerge failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	<ul> <li>The relevant MEP detected a fault (Mismerge).</li> <li>&lt;<i>level</i>&gt;: MEG level</li> <li>&lt;<i>no.</i>&gt;: MEG identification number</li> <li>&lt;<i>mepid</i>&gt;: MEP ID</li> <li>[Action]</li> <li>A partner device is not recognized as the same MEG.</li> <li>Check that the MEG level, MEG identification number, and MEG ID match the part</li> </ul>		
20900010	S5	An UnexpectedMEGLevel failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	<ul> <li><level>: MI</level></li> <li><no.>: ME0</no.></li> <li><mepid>: M</mepid></li> <li>[Action]</li> <li>The Device recent</li> </ul>	G identification number	
20900011	S5	An UnexpectedMEP failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	<ul> <li>The relevant MEP detected a fault (UnexpectedMEP).</li> <li>&lt;<i>level</i>&gt;: MEG level</li> <li>&lt;<i>no.</i>&gt;: MEG identification number</li> <li>&lt;<i>mepid</i>&gt;: MEP ID</li> <li>[Action]</li> <li>The CCM received from the partner device and the MEP ID set for the Device are the same.</li> <li>Change the MEP ID of either the Device or the partner device.</li> </ul>		
20900012	S5	An UnexpectedPeriod failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	The relevant MEP detected a fault (UnexpectedPeriod). • <level>: MEG level • <no.>: MEG identification number • <mepid>: MEP ID [Action] The CCM-sending intervals of the partner device and the Device are not the same. Make sure that the CCM-sending intervals of the devices are the same.</mepid></no.></level>		

Message ID	Event level	Message text	
	Description and action		
20900013	S5	An UnexpectedPriority failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	<ul> <li><level>: M</level></li> <li><no.>: ME</no.></li> <li><mepid>: 1</mepid></li> <li>[Action]</li> <li>The CoS value</li> </ul>	EG identification number	
20900014	S5	An LOC failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	The relevant MEP detected a fault (LOC). • <level>: MEG level • <no.>: MEG identification number • <mepid>: MEP ID [Action] A timeout occurred while receiving a CCM from the partner device. Check the network status.</mepid></no.></level>		
20900015	S5	An RDI failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	The relevant MEP detected a fault (RDI). • < <i>level</i> >: MEG level • < <i>no</i> .>: MEG identification number • < <i>mepid</i> >: MEP ID [Action] A fault was detected in a partner device. Check the status of the partner device.		
20900016	S5	An AIS failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	The relevant MEP detected a fault (AIS). • <level>: MEG level • <no.>: MEG identification number • <mepid>: MEP ID [Action] The AIS status occurred. Check the network status.</mepid></no.></level>		
20900017	S5	An LCK failure was detected in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)	
	The relevant MEP detected a fault (LCK). • < <i>level</i> >: MEG level • < <i>no.</i> >: MEG identification number • < <i>mepid</i> >: MEP ID [Action] The LCK status occurred after an LCK was received from the partner device. Check the network status.		

Message ID	Event level	Message text
		Description and action
20900018	S6	An AIS failure was cleared in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)
	• <i><level></level></i> : M	G identification number
20900019	S6	An LCK failure was cleared in MEP. (MEL = < <i>level</i> >, MEG = < <i>no.</i> >, MEP = < <i>mepid</i> >)
	• < <i>level</i> >: M	G identification number

### Chapter

## 6. IP Packet Forwarding

- 6.1 IP 6.2 PBR
- 6.3 DHCP
- 6.4 VRRP

### 6.1 IP

The following table shows the system messages of the IP message type.

### Table 6-1: System messages of the IP message type

Message ID	Event level	Message text	
	Description and action		
00400100	S5	Duplication of IPv4 address with the node was detected. (IPv4 address = < <i>ipv4 address</i> >, node MAC address = < <i>mac address</i> >)	
	address>. • <ipv4 address<br="">• <mac addree<br="">[Action] 1. Change eith changed the Device, exect 2. When using case, increase comprising 3. If Address C</mac></ipv4>	ss < <i>ipv4 address</i> > is being used by the device that has the MAC address < <i>mac</i> sss>: IPv4 address that is registered for the interface for the Device sss>: MAC address of the device for which the duplicate IPv4 address was detected er this IPv4 address or the IPv4 address of the device that has the MAC address. If you IPv4 address of the other device while Address Conflict Detection is in use, on the cute the clear ip duplicate-address command. VRRP, this message might be issued frequently when the CPU load is heavy. In such a se the value of the vrrp timers advertise configuration command for the devices the VRRP. Conflict Detection is in use, check the network configuration, and then execute the duplicate-address command.	
00400101	S3	The number of ARP entries exceeded the maximum, causing old entries to be deleted in order to add new entries.	
	<ul> <li>The number of ARP entries exceeded the capacity limit of the Device. Old entries were deleted, and new entries were added.</li> <li>[Action]</li> <li>If this message is issued frequently, take the following action:</li> <li>Delete unnecessary information from the settings of the arp configuration command.</li> <li>If unnecessary entries have been generated dynamically, delete them by using the clear arp-cache command.</li> <li>Review the network system configuration, and change it to one in which the number of ARP entries can be reduced.</li> </ul>		
00400102	S3	The number of ARP entries exceeded the maximum allowed for the global network, causing old entries to be deleted in order to add new entries.	
	deleted, and new [Action] If this message i 1. Delete unne 2. If unnecessa arp-cache	network system configuration, and change it to one in which the number of ARP entries	

Message ID	Event level	Message text
		Description and action
00400103	S3	The number of ARP entries exceeded the maximum allowed for each VRF, causing old entries to be deleted in order to add new entries.
	<ul> <li>The number of ARP entries exceeded the maximum value for each VRF. Old entries were deleted, and new entries were added.</li> <li>[Action]</li> <li>If this message is issued frequently, take the following action:</li> <li>Delete unnecessary information from the settings of the arp configuration command.</li> <li>If unnecessary entries have been generated dynamically, delete them by using the clear arp-cache command.</li> <li>Change the network configuration so that the the number of ARP entries can be reduced.</li> </ul>	
00400104	S3	The number of ARP entries of the interface exceeded the maximum. (interface = < <i>interface name&gt;</i> )
	<ul> <li>The maximum number of ARP entries for each interface was exceeded in the interface <i><interface name=""></interface></i>.</li> <li><i><interface name=""></interface></i>: Interface name [Action]</li> <li>Display the ARP entries for the interface by using the show ip arp interface command, and th check if the maximum number of ARP entries has been exceeded. If the maximum number was exceeded, take the following actions:</li> <li>Delete unnecessary information from the settings of the arp configuration command.</li> <li>If unnecessary entries have been generated dynamically, delete them by using the clear arp-cache command.</li> </ul>	
		network configuration so that the the number of ARP entries can be reduced.
00600100	<ul> <li>S5 Duplication of IPv6 address with the node was detected. (IPv6 address = <ipv6 address="">, node MAC address = <mac address="">)</mac></ipv6></li> <li>The IPv6 address <ipv6 address=""> is being used by the device that has the MAC address <mac address="">.</mac></ipv6></li> <li><ipv6 address="">: IPv6 address of the Device interface that has become unavailable because of address duplication detection <li><mac address="">: MAC address of a device for which address duplication detection was detected [Action]</mac></li> <li>If <ipv6 address=""> set in the Device is incorrect, change <ipv6 address=""> of the device.</ipv6></ipv6></li> <li>If <ipv6 address=""> on the other device is incorrect, change <ipv6 address=""> of the conflicting device After that, either delete <ipv6 address=""> of the Device and then re-set it, or execute the clear ipv duplicate-address command.</ipv6></ipv6></ipv6></li> <li>When using VRRP, this message might be issued frequently when the CPU load is heavy. In such case, increase the value of the vrrp timers advertise configuration command for the device comprising the VRRP.</li> </ipv6></li></ul>	
00600101	new entries are a [Action] If this message i 1. Delete unne 2. If unnecessa neighbors	is issued frequently, take the following action: cessary information from the settings of the ipv6 neighbor configuration command ry entries have been generated dynamically, delete them by executing the clear ipv6

Message ID	Event level	Message text
		Description and action
00600102	\$3	The number of NDP entries exceeded the maximum allowed for the global network causing old entries to be deleted in order to add new entries.
	<ul> <li>The number of NDP entries exceeded the maximum value for the global network. Old entries were deleted, and new entries were added.</li> <li>[Action]</li> <li>If this message is issued frequently, take the following action: <ol> <li>Delete unnecessary information from the settings of the ipv6 neighbor configuration command</li> <li>If unnecessary entries have been generated dynamically, delete them by executing the clear ipv6 neighbors command.</li> </ol> </li> <li>Review the network system configuration, and change it to one in which the number of NDP entrie can be reduced.</li> </ul>	
00600103	S3	The number of NDP entries exceeded the maximum allowed for each VRF, causing old entries to be deleted in order to add new entries.
	<ul> <li>The number of NDP entries exceeded the maximum value for each VRF. Old entries were deleted, and new entries were added.</li> <li>[Action]</li> <li>If this message is issued frequently, take the following action:</li> <li>Delete unnecessary information from the settings of the ipv6 neighbor configuration command</li> <li>If unnecessary entries have been generated dynamically, delete them by executing the clear ipv6 neighbors command.</li> <li>Change the network configuration so that the the number of NDP entries can be reduced.</li> </ul>	
00600104	\$3	The number of the NDP entries of the interface exceeded the maximum. (interface < <i>interface name&gt;</i> )
	<ul> <li>The maximum number of NDP entries for each interface was exceeded in the interface <i><interface name=""></interface></i>.</li> <li><i><interface name=""></interface></i>: Interface name</li> <li>[Action]</li> <li>Display NDP entries for the interface by using the show ipv6 neighbors interface command, and then check if the maximum number of NDP entries was exceeded. If the maximum number was exceeded, take the following actions:</li> <li>Delete unnecessary information from the settings of the ipv6 neighbor configuration command.</li> <li>If unnecessary entries have been generated dynamically, delete them by executing the clear ipv neighbors command.</li> <li>Change the network configuration so that the the number of NDP entries can be reduced.</li> </ul>	
00600110	S4	The number of the NDP entries of the interface exceeded the threshold. (threshold < <i>higher count&gt;</i> , interface = < <i>interface name&gt;</i> )
	name>. • <interface n<br="">• <higher con<br="">[Action] 1. Delete unne 2. If unnecessa neighbors</higher></interface>	NDP entries for each interface exceeded the threshold value in the interface <i><interfac< i=""> name&gt;: Interface name int&gt;: Warning threshold value for the number of NDP entries per interface cessary information from the settings of the ipv6 neighbor configuration comman iry entries have been generated dynamically, delete them by executing the clear ipv6 command. network configuration so that the the number of NDP entries can be reduced.</interfac<></i>

Message ID	Event level	Message text		
		Description and action		
00600111	\$6	The number of the NDP entries of the interface recovered from the threshold. (threshold = < <i>lower count</i> >, interface = < <i>interface name</i> >)		
	The number of NDP entries for each interface decreased to the threshold value in the interface <i><interface name=""></interface></i> . <ul> <li><i><interface name=""></interface></i>: Interface name</li> <li><i><lower count=""></lower></i>: Recovery threshold value for the number of NDP entries per interface undefined is displayed immediately after the configuration is deleted. [Action] None.</li> </ul>			
05100100	85	A received message was ignored because the option length in the message was 0. $(type = \langle type \rangle)$		
	<ul> <li>A received message was ignored because the length of the option was 0.</li> <li><type>: Received option type [Action] Check the settings of the terminal that sends a router solicitation.</type></li> </ul>			
05100200	S5	A Router Solicitation message was ignored because the received interface was not found. (source = $\langle address1 \rangle$ , destination = $\langle address2 \rangle$ )		
	<ul> <li>A router solicitation was ignored because the interface that received the solicitation was not found.</li> <li><address1>: Router solicitation sender address</address1></li> <li><address2>: Router solicitation destination address</address2></li> <li>[Action]</li> <li>If this error occurs frequently, check the status of the interface.</li> </ul>			
05100201	85	A Router Solicitation message from the unspecified address (::) was ignored becaus the message had a source link-layer address option. (interface = <interface name=""></interface>		
	<ul> <li>The router solicitation was ignored because the source link-layer address option has been set for router solicitation from unspecified address (::).</li> <li><interface name="">: Name of interface for receiving router solicitation [Action]</interface></li> <li>Check the settings of the terminal that sends a router solicitation.</li> </ul>			
05100202	85	A Router Solicitation message was ignored because it was received on a non-advertising interface. (interface = < <i>interface name</i> >)		
	<ul> <li>The router solicitation was ignored because the router solicitation was received by the interface that does not advertise routers.</li> <li><i><interface name=""></interface></i>: Name of interface for receiving router solicitation [Action]</li> <li>If it is necessary to respond to the router solicitation, enable router advertisement in the interface.</li> </ul>			
05100203	S5	A Router Solicitation message was ignored because of an invalid hoplimit. (receive hoplimit = < <i>hoplimit</i> >, source = < <i>address</i> >, interface = < <i>interface name</i> >)		
	<ul> <li>A router solicitation was ignored because the hop limit of the received router solicitation message is not the correct value (255).</li> <li><i><hoplimit></hoplimit></i>: Hop limit value of the received router solicitation message </li> <li><i><address></address></i>: Router solicitation sender address </li> <li><i><interface name=""></interface></i>: Name of interface for receiving router solicitation [Action] Check the settings of the terminal that sends a router solicitation.</li></ul>			

Message ID	Event level	Message text	
	Description and action		
05100204	S5	A Router Solicitation message was ignored because of an invalid code. (code = < <i>code</i> >, source = < <i>address</i> >, interface = < <i>interface name</i> >)	
	<ul> <li>A router solicitation was ignored because the code of the received router solicitation message is not the correct value (0).</li> <li>&lt;<i>code&gt;:</i> ICMP6 code value of the received router solicitation message</li> <li>&lt;<i>address&gt;</i>: Router solicitation sender address</li> <li>&lt;<i>interface name&gt;</i>: Name of interface for receiving router solicitation</li> <li>[Action]</li> <li>Check the settings of the terminal that sends a router solicitation.</li> </ul>		
05100205	S5	A Router Solicitation message was ignored because the packet length was too shor (source = <i><address></address></i> , interface = <i><interface name=""></interface></i> , length = <i><length></length></i> )	
	<ul> <li>The router solicitation was ignored because the received router solicitation packet is short.</li> <li><address>: Router solicitation sender address</address></li> <li><interface name="">: Name of interface for receiving router solicitation</interface></li> <li><length>: Received router solicitation packet length</length></li> <li>[Action]</li> <li>Check the settings of the terminal that sends a router solicitation.</li> </ul>		
05100400	S4	A Router Advertisement message could not be sent from an interface because there was no valid link-local address on the interface. (interface = <i><interface name=""></interface></i> )	
	<ul> <li>Router advertisements cannot be sent because there is no valid link-local address in the relevant interface.</li> <li><i><interface name=""></interface></i>: Name of the router advertisement sending interface [Action]</li> <li>If this error occurs frequently, check the status of the interface.</li> </ul>		
05100402	S3	A Router Advertisement message could not be sent from an interface. (interface = < <i>interface name</i> >, error = < <i>error string</i> >)	
	Router advertisements cannot be sent from the relevant interface.         • <interface name="">: Name of the router advertisement sending interface         • <error string="">: Error cause         [Action]         If this error occurs frequently, check the status of the interface.</error></interface>		
05104101	S3	A Router Advertisement message could not be sent from an interface because the MTU option value exceeded the interface MTU. (interface = <interface name="">, MTU option = <configured value="">, MTU = <interface mtu="">)</interface></configured></interface>	
	<ul> <li>Router advertisements cannot be sent from the interface because the MTU option value exceeds the MTU of the physical interface.</li> <li><i><interface name=""></interface></i>: Name of the router advertisement sending interface</li> <li><i><configured value=""></configured></i>: MTU option value of the router advertisement</li> <li><i><interface mtu=""></interface></i>: Physical MTU of the interface</li> <li>[Action]</li> <li>Check the settings of the Device.</li> </ul>		

### 6.2 PBR

The following table shows the system messages of the PBR message type.

Table 6-2:	System messages	of the PBR message	ge type
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Message ID	Event level	Message text		
		Description and action		
11210011	<b>S</b> 6	There is a change in the nexthop of an IPv4 policy-based routing list. (policy-list = <policy list="" name="">, new priority = <priority>)</priority></policy>		
	<ul> <li>A IPv4 policy-based routing list selected the next hop with the priority &lt;<i>priority</i>&gt;.</li> <li>&lt;<i>policy list name</i>&gt;: Name of the policy-based routing list</li> <li>&lt;<i>priority</i>&gt;: Priority of the next hop</li> <li>[Action]</li> <li>None.</li> </ul>			
11210012	\$6	There is a change in an IPv4 policy-based routing list based on the default rule. (policy-list = < <i>policy list name</i> >)		
	The IPv4 policy-based routing list <i><policy list="" name=""></policy></i> selected the default action. <ul> <li><i><policy list="" name=""></policy></i>: Name of the policy-based routing list</li> <li>[Action]</li> </ul> None.			
11310011	S6	There is a change in the nexthop of an IPv6 policy-based routing list. (policy-list = <policy list="" name="">, new priority = <priority>)</priority></policy>		
	The IPv6 policy-based routing list <i><policy list="" name=""></policy></i> selected the next hop with the priority <i><priority></priority></i> . <ul> <li><i><policy list="" name=""></policy></i>: Name of the policy-based routing list</li> <li><i><priority></priority></i>: Priority of the next hop [Action]</li> <li>None.</li> </ul>			
11310012	\$6	There is a change in an IPv6 policy-based routing list based on the default rule. (policy-list = < <i>policy list name</i> >)		
	The IPv6 policy-based routing list <i><policy list="" name=""></policy></i> selected the default action. <ul> <li><i><policy list="" name=""></policy></i>: Name of the policy-based routing list</li> <li>[Action]</li> <li>None.</li> </ul>			

### 6.3 DHCP

The following table shows the system messages of the  $\ensuremath{\mathtt{DHCP}}$  message type.

Message ID	Event level	Message text	
	Description and action		
1f01b024	\$3	A DHCPv6 packet was discarded by a DHCPv6 relay agent because the number of binding(IA_PD) exceeded the maximum.	
	DHCPv6 packets were discarded by the DHCPv6 relay agent because the the maximum number of addresses that can be assigned (IA_PD) was exceeded. After this message is issued, the same system message is not issued until 5 minutes elapses. [Action]		
	<ol> <li>Check if the number of addresses that can be assigned (IA_PD) is more than the expected number by using the show ipv6 dhcp relay binding command. In addition, check the number of discarded DHCPv6 packets by using the show ipv6 dhcp relay statistics command.</li> <li>Check the settings of the DHCPv6 relay agent (the ipv6 dhcp relay destination configuration command).</li> </ol>		
	0	etwork configuration and reconsider the configuration of the Device.	

### 6.4 VRRP

The following table shows the system messages of the VRRP message type.

### Table 6-4: System messages of the VRRP message type

Message ID	Event level	Message text	
	Description and action		
0e008001	\$6	The status of a virtual router changed from active to " <i><state></state></i> ". (interface = <i><interface name=""></interface></i> )	
	The status of the virtual router changed. <ul> <li><state>: Virtual router state</state></li> <li><interface name="">: Name of interface on which VRRP is configured</interface></li> </ul> <li>[Action]</li> <li>None.</li>		
0e008002	\$5	A virtual router received a VRRP packet with an IP TTL not equal to 255. (interfa = < <i>interface name</i> >)	
	<ul> <li>The virtual router received a VRRP advertisement packet whose TTL (Time-to-Live) in the IP header was not 255.</li> <li><i><interface name=""></interface></i>: Name of interface on which VRRP is configured [Action]</li> <li>Check the remote devices that make up the same virtual router.</li> </ul>		
0e008003	85	A virtual router received a VRRP packet shorter than the VRRP header. (interface <i><interface name=""></interface></i> )	
	The virtual router received a VRRP advertisement packet that had an invalid length. <ul> <li><interface name="">: Name of interface on which VRRP is configured</interface></li> </ul> <li>[Action]</li> <li>Check the remote devices that make up the same virtual router.</li>		
0e008004	85	A virtual router received a VRRP packet that did not pass the authentication check (interface <i><interface name=""></interface></i> )	
	Authentication of a received VRRP advertisement packet failed. • <i><interface name=""></interface></i> : Name of interface on which VRRP is configured [Action] Check the password settings for the Device and the remote devices that make up the same virtual route		
0e008005	85	A virtual router received a VRRP packet whose address list differs from the one set for the virtual router. (interface <i><interface name=""></interface></i> )	
	<ul> <li>The IP address of a virtual router specified in a received VRRP advertisement packet does not match the settings of the Device.</li> <li><i><interface name=""></interface></i>: Name of interface on which VRRP is configured [Action]</li> <li>Check the IP address settings of virtual routers for the Device and for the remote devices that make up the same virtual router.</li> </ul>		
0e008006	\$5	A virtual router received a VRRP packet whose advertisement interval differs from the one set for the local virtual router. (interface <i><interface name=""></interface></i> )	
	the Device. • < <i>interface n</i> [Action]	erval specified in a received VRRP advertisement packet does not match the settings name>: Name of interface on which VRRP is configured ng intervals for the Device and the remote devices that make up the same virtual rout	

Message ID	Event level	Message text	
	Description and action		
0e008007	S5	A received VRRP packet has an unsupported VRRP version number.	
	The VRRP version specified in a received VRRP advertisement packet does not match the VRRP version of the Device. [Action] When constructing the Device with a virtual router, match the VRRP version of the remote device with the VRRP version of the Device.		
0e008012	S6	A virtual router ended. (interface = < <i>interface name</i> >)	
	The virtual rou • <i><interface< i=""> [Action] None.</interface<></i>	ter ended. <i>name</i> >: Name of interface on which VRRP is configured	
0e008015	S5	A virtual router received a VRRP packet with an IP hop limit not equal to 255. (interface = < <i>interface name</i> >)	
	The virtual router received a VRRP advertisement packet whose hop limit in the IP header was not 25: • <i><interface name=""></interface></i> : Name of interface on which VRRP is configured [Action] Check the remote devices that make up the same virtual router.		
0e008022	S5	An unsupported value is set for the send interval of Advertisement packets. The default value will be used. (interface = <i><interface name=""></interface></i> )	
	<ul> <li>An unsupported value is specified for the interval for sending advertisement packets. The default value is used for Advertisement Interval.</li> <li><interface name="">: Name of interface on which VRRP is configured [Action]</interface></li> <li>If the VRRP operation mode is set by using the ietf-ipv6-spec-07-mode or ietf-unified-spec-02-mode command, set the value to 40 seconds or smaller.</li> <li>When you set a millisecond value for the advertisement packet sending interval, set the VRRP operation mode by using the ietf-ipv6-spec-07-mode or ietf-unified-spec-02-mode command.</li> </ul>		
0e008023	85	A virtual router was disabled because the primary virtual router is not running.(interface = <i><interface name=""></interface></i> )	
	The follower virtual router is disabled because no primary virtual router is configured. <ul> <li><i><interface name=""></interface></i>: Name of interface on which VRRP is configured</li> </ul> <li>[Action] <ul> <li>Configure a primary virtual router.</li> </ul> </li>		
0e008024	S6	A virtual router was enabled because the primary virtual router started.(interface = < <i>interface name&gt;</i> )	
		irtual router was enabled because a primary virtual router was configured. <i>name</i> >: Name of interface on which VRRP is configured	

### Chapter

# 7. Unicast Routing

- 7.1 RIP7.2 RIPng
- 7.3 OSPF 7.4 OSPFv3
- 7.5 BGP4
- 7.6 BGP4+
- 7.7 UNICAST

### 7.1 RIP

The following table shows the system messages of the RIP message type.

### Table 7-1: System messages of the RIP message type

Message ID	Event Message text level		
	Description and action		
05020100	85	A received RIP packet was ignored because a version field was 0. (message type = < <i>rip command</i> >, source = <i><source address<="" i=""/>&gt;)</i>	
	<ul> <li>A received RIP packet was ignored because the version field is 0.</li> <li><pre><rip command="">: Received message type Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry</rip></pre></li> <li><pre><source address=""/>: Source gateway [Action] Check the unicast routing program (RIP) for the source gateway.</pre></li> </ul>		
05020101	85	A received RIP packet was ignored because a reserved field was not 0. (message type = < <i>rip command</i> >, source = < <i>source address</i> >)	
	<ul> <li>A received RIP packet was ignored because the reserved field is not 0.</li> <li>&lt;<i>rip command</i>&gt;: Received message type Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry</li> <li>&lt;<i>source address</i>&gt;: Source gateway [Action]</li> <li>Check the unicast routing program (RIP) for the source gateway.</li> </ul>		
05020201	85	A received RIP packet was ignored because of an authentication error. (message type = <i><rip command=""></rip></i> , source = <i><source address=""/></i> [, key ID = <i><key id=""></key></i> ])	

Message ID	Event level	Message text	
	Description and action		
05020202	S5	A received RIP packet was ignored because the authentication type was invalid. (message type = <i><rip command=""></rip></i> , source = <i><source address=""/></i> )	
	<ul> <li>A received RIP packet was ignored because the authentication type of authentication information is invalid. This system message is output according to the following conditions: <ol> <li>The messages from the first to the 16th event are output.</li> </ol> </li> <li>After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs.</li> <li>If an event occurs three minutes or more after the last event occurred, this message is output depending on 1 and 2 above.</li> <li>Note that the above numbers indicate the total number of times the following messages are output.</li> <li>Message type: RIP Message ID: 05020201</li> <li>Message type: RIP Message ID: 05020202</li> <li>Message type: RIP Message ID: 05020203</li> <li>Message type: RIP Message ID: 05020204</li> <li>Invalid, Request, Response, TraceOn, TraceOff, Poll, PollEntry</li> <li></li></ul>		
05020203	S5	A received RIP packet was ignored because the authentication key ID was invalid. (message type = <i><rip command=""></rip></i> , source = <i><source address=""/></i> , key ID = <i><key id=""></key></i>	
	This system mei 1. The message 2. After 17 tim times the ev 3. If an event of depending of Note that the ab Message type: Message type: Message type: Message type: • <i><rip comma<="" i=""> Invalid, R • <i><source add<="" i=""/> • <i><key id=""></key></i>: K [Action] 1. Check wheth key identified</i></rip></i>	packet was ignored because the key identifier of authentication information was invalies sage is output according to the following conditions: es from the first to the 16th event are output. tees from the beginning of the event occurrence, this message is output once every 250 ent occurs. beccurs three minutes or more after the last event occurred, this message is output on 1 and 2 above. ove numbers indicate the total number of times the following messages are output. RIP Message ID: 05020201 RIP Message ID: 05020202 RIP Message ID: 05020202 RIP Message ID: 05020204 <i>und</i> >: Received message type equest, Response, TraceOn, TraceOff, Poll, PollEntry <i>tress</i> >: Source gateway tey identifier her the key identifier of authentication information for the local device RIP matches the er of authentication information for the remote device RIP.	

Message ID	Event level	Message text		
		Description and action		
05020204	85	A received RIP packet was ignored because an authentication sequence number was invalid. (message type = <i><rip command=""></rip></i> , source = <i><source address=""/></i> , key ID = <i><key id=""></key></i> )		
	<ul> <li>invalid. This system</li> <li>1. The message</li> <li>2. After 17 times the evolution of the evolut</li></ul>	<pre>coccurs three minutes or more after the last event occurred, this message is output on 1 and 2 above. ove numbers indicate the total number of times the following messages are output. RIP Message ID: 05020201 RIP Message ID: 05020202 RIP Message ID: 05020203 RIP Message ID: 05020204 und&gt;: Received message type equest, Response, TraceOn, TraceOff, Poll, PollEntry dress&gt;: Source gateway</pre>		
05020400	\$5	A received route information was ignored because of an invalid metric value. (metric = <metric>, destination = <destination address="">, source = <source address=""/>)</destination></metric>		
	<ul> <li>The routing information was ignored because routing information that has an invalid metric value (0, or 17 or larger) was received.</li> <li><metric>: Metric value of the routing information</metric></li> <li><destination address="">: Routing information destination address</destination></li> <li><source address=""/>: Source gateway</li> <li>[Action]</li> <li>Check the unicast routing program (RIP) for the source gateway.</li> </ul>			
05020401	85	A received route information was ignored because of an invalid network mask. (mask = <mask>, source = <source address=""/>, destination = <destination address="">)</destination></mask>		
	received. • <mask>: Re • <source add<br=""/>• <destination [Action]</destination </mask>	brmation was ignored because routing information that has an invalid network mask was outing information network mask dress>: Source gateway n address>: Routing information destination address ast routing program (RIP) for the source gateway.		
05020500	\$3	The total number of RIP targets exceeded the permitted maximum.		
	[Action]	er of RIP targets (neighboring) exceeded the maximum number permitted. settings so that the maximum number of neighboring routers does not exceed the		

# 7.2 RIPng

The following table shows the system messages of the RIPng message type.

Та	ble	7-2:	Syste	em messages of the RIPng message type

Message ID	Event level	Message text	
		Description and action	
05030100	S5	A received RIPng packet was ignored because its packet length was too short. (sour = <source address=""/> , packet length = <size>)</size>	
	<ul> <li><source add<="" li=""/> <li><size>: Pac</size></li> <li>[Action]</li> </li></ul>	et was ignored because the packet length was shorter than the RIPng header. <i>lress</i> >: Source gateway ket length st routing program (RIPng) for the source gateway.	
05030101	S5	A received RIPng packet was ignored because of an invalid version field value. (message type = < <i>ripng command</i> >, source = < <i>source address</i> >)	
	<ul> <li><ripng com.<br="">Request, R</ripng></li> <li><source add<br=""/>[Action]</li> </ul>	ng packet was ignored because the version field was invalid. mand>: Received message type esponse dress>: Source gateway address st routing program (RIPng) for the source gateway.	
05030102	S5	A received RIPng packet was ignored because of an invalid hoplimit. (hoplimit = < <i>hoplimit</i> >)	
	<ul> <li>A received RIPng packet was ignored because the hop limit was invalid.</li> <li><hoplimit>: Received hop limit</hoplimit></li> <li>[Action]</li> <li>Check the unicast routing program (RIPng) for the source gateway.</li> </ul>		
05030300	S5	A received RIPng packet was ignored because of the invalid length of a route information. (source = < <i>source address</i> >)	
	<ul> <li>A received RIPng packet was ignored because routing information of invalid length was included.</li> <li><source address=""/>: Source gateway</li> <li>[Action]</li> <li>Check the unicast routing program (RIPng) for the source gateway.</li> </ul>		
05030400	S5	A received RIPng packet was ignored because the source address was not a link-loc address. (message type = <i><ripng command=""></ripng></i> , source = <i><source address=""/></i> )	
	<ul> <li><ripng com.<="" li=""> <li><source add<="" li=""/> <li>[Action]</li> </li></ripng></li></ul>	ng packet was ignored because the source address was not a link-local address. mand>: Received message type dress>: Source gateway st routing program (RIPng) for the source gateway.	
05030401	S5	A received RIPng packet was ignored because of the invalid source UDP port number (message type = < <i>ripng command</i> >, source = < <i>source address</i> >)	
	<ul> <li><ripng com.<="" li=""> <li><source add<br=""/>[Action]</li> </ripng></li></ul>	ng packet was ignored because the source port was invalid. mand>: Received message type dress>: Source gateway st routing program (RIPng) for the source gateway.	

Message ID	Event level	Message text	
		Description and action	
05030402	S5	A route information was ignored because of its invalid length. (source = < <i>source address</i> >)	
	• <i><source add<="" i=""/> [Action]</i>	ormation of the received RIPng packet was ignored because its length was invalid. <i>dress</i> >: Source gateway st routing program (RIPng) for the source gateway.	
05030403	S5	A received route information was ignored because of an invalid metric value. (metric = <metric>, prefix = <prefix>, source = <source address=""/>)</prefix></metric>	
	<ul> <li>The routing information was ignored because routing information that has an invalid metric value (0, or 17 or larger) was received.</li> <li><metric>: Metric value of the routing information</metric></li> <li><prefix>: Routing information destination prefix</prefix></li> <li><source address=""/>: Source gateway address</li> <li>[Action]</li> <li>Check the unicast routing program (RIPng) for the source gateway.</li> </ul>		
05030404	S5	A received route information was ignored because of an invalid prefix length. (prefix length = <prefixlen>, destination = <prefix>, source = <source address=""/>)</prefix></prefixlen>	
	received. • <prefixlen> • <prefix>: R • <source add<br=""/>[Action]</prefix></prefixlen>	<ul> <li>&gt;: Prefix length of the routing information that has an invalid prefix length was</li> <li>&gt;: Prefix length of the routing information outing information destination</li> <li>dress&gt;: Source gateway address</li> <li>ist routing program (RIPng) for the source gateway.</li> </ul>	
05030500	\$3	The total number of RIPng targets exceeded the permitted maximum.	
	[Action]	er of RIPng targets (neighboring) exceeded the maximum number permitted. ng settings so that the maximum number of neighboring routers does not exceed the	

## 7.3 OSPF

The following table shows the system messages of the OSPF message type.

#### Table 7-3: System messages of the OSPF message type

Message ID	Event level	Message text	
		Description and action	
05040000	S6	The adjacency has been established. (router ID = <i><router id=""></router></i> , address = <i><address></address></i> , interface = <i><interface name=""></interface></i> )	
	A connection with the OSPF neighboring router was successfully established. <ul> <li><router id="">: Neighboring router's router ID</router></li> <li><address>: Neighboring router's IPv4 address</address></li> <li><interface name="">: Interface name</interface></li> </ul> [Action] None.		
05040001	S6	The system finished advertising my own router-LSA as a stub router. (domain = <domain id="">)</domain>	
	<ul> <li>Router LSA advertising for a stub router has ended.</li> <li><a a="" href="mailto:&lt;/a&gt;&lt;/li&gt; &lt;li&gt;&lt;a href=" mailto:<=""></a></li> <li><a href="mailto:Action">GOOD For the study of the study o</a></li></ul>		
05040002	<b>S</b> 6	A graceful restart succeeded. (domain = < <i>domain id</i> >)	
	A graceful resta • <domain id<br="">[Action] None.</domain>	rt succeeded. >: OSPF domain ID	
05040100	S4	Sending of an OSPF packet failed. (source = <i><source address=""/></i> , destination = <i><destination address=""></destination></i> , error = <i><error string=""></error></i> )	
	<ul> <li><source add<="" li=""/> <li><destination< li=""> <li><error li="" strin<=""> <li>[Action]</li> </error></li></destination<></li></li></ul>	end an OSPF packet failed. dress>: Source IPv4 address n address>: Destination IPv4 address g>: Error cause urs frequently, check the cause of the error.	

Message ID	Event level	Message text	
	Description and action		
05040200	85	A received OSPF packet was ignored because the packet was invalid. (source = <source address=""/> , destination = <destination address="">[, area ID = <area id=""/>], log = <log type="">)</log></destination>	
	<ul> <li><source ad.<="" li=""/> <li><lastinatio< li=""> <li><area id=""/>:</li> <li><log type=""></log></li> <li>OSPF: inva</li> <li>OSPF: unk</li> <li>OSPF: area</li> <li>OSPF: auth</li> <li>OSPF: auth</li> <li>OSPF: auth</li> <li>OSPF: auth</li> <li>HELLO: n</li> <li>HELLO: d</li> <li>HELLO: d</li> <li>HELLO: e:</li> <li>DD: extern</li> <li>HELLO: ro</li> <li>DD: router</li> <li>[Action]</li> <li>The action to be</li> <li>OSPF: and</li> <li>OSPF: area</li> <li>OSPF: area</li> <li>OSPF: area</li> <li>OSPF: area</li> <li>OSPF: area</li> <li>OSPF: niva</li> <li>The oSPF of</li> <li>OSPF: area</li> <li></li></lastinatio<></li></li></ul>	<ul> <li>One of the following log types:</li> <li>alid checksum</li> <li>nown neighbor</li> <li>a mismatch</li> <li>alid virtual link</li> <li>bentication type mismatch</li> <li>bentication failure</li> <li>betmask mismatch</li> <li>cello timer mismatch</li> <li>cello timer mismatch</li> <li>coption mismatch</li> <li>coption mismatch</li> <li>coption mismatch</li> <li>coption mismatch</li> <li>coption mismatch</li> <li>confusion</li> <li>ce taken depends on the type of the log.</li> <li>alid checksum</li> <li>checksum</li> <lichecksum< li=""> <li>checksum</li> <li>checksum</li> <li>ch</li></lichecksum<></ul>	

Message ID	Event level	Message text	
	Description and action		
05040201	85	The system stopped forming the adjacency to a neighbor because a received DD packet had invalid LS Type. (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> ), invalid LS Type = <i><lsid> <advertised id="" router=""> <ls type=""></ls></advertised></lsid></i> )	
	included in the <pre> <router id=""> &lt; <address>: &lt; <interface n<br="">&lt; <lsid>: LSI &lt; <advertised &lt; <ls type="">: 1 [Action]</ls></advertised </lsid></interface></address></router></pre>	<ul> <li>blished with the neighboring router was suspended because an invalid LS type is received Database Description packet.</li> <li>: Neighboring router's router ID</li> <li>Neighboring router's IPv4 address</li> <li>name&gt;: Interface name</li> <li>D of LSA</li> <li><i>Irouter id</i>&gt;: LSA advertising router ID</li> <li>LSA LS type code</li> <li>advertised by the neighboring router.</li> </ul>	
05040202	85	The system stopped forming the adjacency to a neighbor stopped because a receive LSA differed from a requested LSA. (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> ), LSA infomation= <i><lsid><advertised id="" router=""><itype></itype></advertised></lsid></i> )	
	Adjacency established with the neighboring router was suspended because an LSA that is different from the requested LSA was received. • <i><router id=""></router></i> : Neighboring router's router ID • <i><address></address></i> : Neighboring router's IPv4 address • <i><interface name=""></interface></i> : Interface name • <i><lsid></lsid></i> : LSID of LSA • <i><advertised id="" router=""></advertised></i> : LSA advertising router ID • <i><ls type=""></ls></i> : LSA LS type code [Action] None.		
05040203	85	The adjacency to a neighbor was lost because a received DD packet had an unexpected sequence or optional code. (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> ), sequence number 1, 2 = <i><sequence1></sequence1></i> , <i><sequence2></sequence2></i> )	
	<ul> <li>Adjacency was terminated because the sequence (or the option) of the received Database Description packet did not match. This message is output when the neighboring router is restarted or Database Description packets sent by the Device are not properly received by the neighboring router.</li> <li><i><router id=""></router></i>: Neighboring router's router ID</li> <li><i><address></address></i>: Neighboring router's IPv4 address</li> <li><i><interface name=""></interface></i>: Interface name</li> <li><i><sequence1></sequence1></i>: Sequence number in control data</li> <li><i><sequence2></sequence2></i>: Sequence number in the DD message</li> <li>[Action]</li> <li>None.</li> </ul>		

Message ID	Event level	Message text	
	Description and action		
05040204	85	The adjacency to a neighbor was lost because a requested LSA was not exist in LSDB. (router ID = < <i>router id</i> >, address = < <i>address</i> >, interface = < <i>interface name</i> >, invalid LS request = < <i>lsid</i> > < <i>advertised router id</i> > < <i>ls type</i> >)	
	<ul> <li><router id=""></router></li> <li><address>:</address></li> <li><interface li="" n<=""> <li><lsid>: LSI</lsid></li> <li><advertised< li=""> <li><ls type="">: I</ls></li> <li>[Action]</li> </advertised<></li></interface></li></ul>	terminated due to a request from the LSA that does not exist in the database. : Neighboring router's router ID Neighboring router's IPv4 address name>: Interface name D of LSA d'router id>: LSA advertising router ID LSA LS type code st routing program (OSPF) of the neighboring router.	
05040300	\$5	The adjacency to a neighbor was lost because the adjacency timed out. (router ID = < <i>router id&gt;</i> , address (name) = < <i>address&gt;</i> ( <i><interface name=""></interface></i> )	
	<ul> <li>Adjacency was terminated because Hello packets were not received during a given interval after the last Hello packet was received from the neighboring router. This message is output when the neighboring router is deactivated, or if a problem occurs in communication between the Device and the neighboring router.</li> <li><i>crouter id&gt;</i>: Neighboring router's router ID </li> <li><i>caddress&gt;</i>: Neighboring router's IPv4 address </li> <li><i>cinterface name&gt;</i>: Interface name </li> <li>[Action]</li> <li>If this error occurs frequently, shorten the interval for sending Hello packets (hello-interval) or extend the length of time that adjacency is to be maintained (dead-interval). </li> </ul>		
05040301	85	The adjacency to a neighbor was lost because a neighbor did not receive a Hello packet recently. (router ID = <i><router id=""></router></i> , address = <i><address></address></i> , interface = <i><interface name=""></interface></i> )	
	<ul> <li>Adjacency was terminated because the neighboring router no longer recognizes the Device. This message is output when the neighboring router is restarted or Hello packets sent by the Device are not properly received by the neighboring router.</li> <li><i>crouter id&gt;</i>: Neighboring router's router ID </li> <li><i>caddress&gt;</i>: Neighboring router's IPv4 address </li> <li><i>cinterface name&gt;</i>: Interface name </li> <li>[Action]</li> <li>If this error occurs frequently, shorten the interval for sending Hello packets (hello-interval) or extend the length of time that adjacency is to be maintained (dead-interval). </li> </ul>		
05040400	85	A graceful restart failed because a neighbor was not running as a helper. (router ID = < <i>router id&gt;</i> , address = <i><address></address></i> , domain = <i><domain id=""></domain></i> )	
	<ul> <li><router id=""></router></li> <li><address>:</address></li> <li><domain id<="" li=""> <li>[Action]</li> </domain></li></ul>	rt failed because the neighboring router is not operating as a helper. : Neighboring router's router ID Neighboring routet's IPv4 address >: OSPF domain ID guration of a graceful restart of the neighboring router.	

Message ID	Event level	Message text	
		Description and action	
05040401	85	A graceful restart failed because a neighbor stopped working as a helper. (router ID = < <i>router id&gt;</i> , address = < <i>address&gt;</i> , domain = < <i>domain id&gt;</i> )	
	<ul> <li>A graceful restart failed because the neighboring router stopped operating as a helper.</li> <li><router id="">: Neighboring router's router ID</router></li> <li><address>: Neighboring router's IPv4 address</address></li> <li><domain id="">: OSPF domain ID</domain></li> <li>[Action]</li> <li>If this error occurs frequently, check the OSPF status of the neighboring router and the cause of termination of the helper operation.</li> </ul>		
05040402	S5	A graceful restart failed because the system failed in LSA synchronization between all the neighbors. (domain = $<$ <i>domain id</i> $>$ )	
	<ul> <li>A graceful restart failed because reconnection and LSA synchronization with all of the neighboring routers connected before the restart could not be performed within the restart time.</li> <li><a href="https://www.commonstation.com">dom in LSA synchronization with all of the neighboring routers connected before the restart could not be performed within the restart time.</a></li> <li><a href="https://www.commonstation.com">dom in LSA synchronization with all of the neighboring routers connected before the restart could not be performed within the restart time.</a></li> <li><a href="https://www.commonstation.com">dom in LSA synchronization with all of the neighboring routers connected before the restart could not be performed within the restart time.</a></li> <li><a href="https://www.com">dom in LSA synchronization with all of the neighboring routers connected before the restart time.</a></li> <li><a href="https://www.com">dom in LSA synchronization with all of the neighboring routers connected before the restart time.</a></li> </ul>		
05040500	S5	The system stopped acting as a helper because the network topology changed. (route $ID = $ , address = $$ )	
	The helper operation stopped because the topology was changed. • < <i>router id</i> >: Neighboring router's router ID • < <i>address</i> >: Neighboring router's IPv4 address [Action] None.		
05040501	S5	The system stopped acting as a helper because the restart timed out. (router ID = < <i>router id&gt;</i> , address = < <i>address&gt;</i> )	
	<ul> <li><router id=""></router></li> <li><address>:</address></li> <li>[Action]</li> <li>1. Check if the</li> </ul>	ation stopped because the waiting time for restart elapsed. : Neighboring router's router ID Neighboring router's IPv4 address e neighboring router has stopped the restart operation. stopped, review the restart time of the neighboring router.	

## 7.4 OSPFv3

The following table shows the system messages of the OSPFv3 message type.

#### Table 7-4: System messages of the OSPFv3 message type

Message ID	Event level	Message text	
		Description and action	
05050000	<b>S</b> 6	The adjacency has been established. (router ID = <i><router id=""></router></i> , interface = <i><interface name=""></interface></i> )	
	A connection with the OSPFv3 neighboring router was successfully established. <ul> <li><router id="">: Neighboring router's router ID</router></li> <li><interface name="">: Interface name</interface></li> </ul> <li>[Action] <ul> <li>None.</li> </ul> </li>		
05050001	S6	The system finished advertising my own router-LSA as a stub router. (domain = <domain id=""></domain>	
	Router LSA advertising for a stub router has ended. • <domain id="">: OSPFv3 domain ID [Action] None.</domain>		
05050002	S6	A graceful restart succeeded. (domain = < <i>domain id</i> >)	
	A graceful restart succeeded. • <domain id="">: OSPFv3 domain ID [Action] None.</domain>		
05050100	S4	Sending of an OSPFv3 packet failed. (source = <i><source address<="" i=""/>&gt; (<i><interface i="" name<="">&gt;), destination = <i><destination address<="" i="">&gt;, error = <i><error i="" string<="">&gt;)</error></i></destination></i></interface></i></i>	
	<ul> <li><source add<="" li=""/> <li><interface li="" r<=""> <li><destination< li=""> <li><error li="" strin<=""> <li>[Action]</li> </error></li></destination<></li></interface></li></li></ul>	end an OSPFv3 packet failed. dress>: Source IPv6 address name>: Interface name n address>: Destination IPv6 address g>: Error cause urs frequently, check the cause of the error.	

Message ID	Event level	Message text	
	Description and action		
05050200	S5	A received OSPFv3 packet was ignored because the packet was invalid. ([area = <area id=""/> , ]router ID = <router id="">[ (<interface name="">)], destination = <destination address="">, log = <log type="">)</log></destination></interface></router>	
	<ul> <li><area id=""/>:</li> <li><router id=""></router></li> <li><router id=""></router></li> <li><interface li="" n<=""> <li><log type="">:</log></li> <li>invalid chec</li> <li>unknown nd</li> <li>area mismai</li> <li>invalid virtu</li> <li>HELLO: h</li> <li>HELLO: c</li> <li>DD: extern</li> <li>HELLO: ro</li> <li>DD: router</li> <li>[Action]</li> <li>The action to be</li> <li>invalid chec</li> <li>The OSPFv</li> <li>unknown nd</li> <li>area mismai</li> <li>invalid virtu</li> <li>If packets, but</li> <li>area mismai</li> <li>invalid virtu</li> <li>If packets, but</li> <li>area mismai</li> <li>invalid virtu</li> <li>If packets at action is rec</li> <li>HELLO: h</li> </interface></li></ul>	PFv3 packet was ignored because it was invalid. Area ID Y: Neighboring router's router ID <i>name</i> >: Interface name <i>n address</i> >: Destination IPv6 address Cone of the following log types: cksum eighbor tch and tch and tch tch tch tch address : Destination IPv6 address cone of the following log types: cksum eighbor tch and tch and tch tch tch tch address : Destination IPv6 address cone of the following log types: cksum eighbor tch and tch and tch tch tch tch and tch tch tch address cone of the following log types: cksum one of the following log types: cksum and tch and tch and tch and tch tch and tch tch tch and tch tch tch tch and tch tch tch tch address tch tch address tch address tch and tch and tch address tch </td	
05050201	85	The system stopped forming the adjacency to a neighbor because a received DD packet had invalid LS Type. (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> ), invalid LS Type = <i><lsid> <advertised id="" router=""> <ls type=""></ls></advertised></lsid></i>	
	included in the LS Type is inva <pre></pre>	<ul> <li>Neighboring router's router ID</li> <li>Neighboring router's address</li> <li>name&gt;: Interface name</li> </ul>	

Message ID	Event level	Message text	
	Description and action		
05050202	85	The system stopped forming the adjacency to a neighbor because a received LSA differed from a requested LSA. (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> ), LSA info.= <i><lsid> <advertised id="" router=""> <ls type=""></ls></advertised></lsid></i>	
	Adjacency established with the neighboring router was suspended because an LSA that is different from the requested LSA was received.         • <router id="">: Neighboring router's router ID         • <address>: Neighboring router's address         • <li><interface name="">: Interface name         • <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li></interface></li></address></router>		
05050203	\$5	The adjacency to a neighbor was lost because a received DD packet had an unexpected sequence number or optional code. (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> ), sequence number 1, 2 = <i><sequence1></sequence1></i> , <i><sequence2></sequence2></i> )	
	Adjacency was terminated because the sequence or option of the received Database Description packet did not match. This message is output when the neighboring router is restarted or Database Description packets sent by the Device are not properly received by the neighboring router. • <i><router id=""></router></i> : Neighboring router's router ID • <i><address></address></i> : Neighboring router's address • <i><interface name=""></interface></i> : Interface name • <i><sequence1></sequence1></i> : Sequence number in control data • <i><sequence2></sequence2></i> : Sequence number in the DD message [Action] None.		
05050204	85	The adjacency to a neighbor was lost because a requested LSA was not exist in LSDB (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> ), invalid LS request = <i><lsid> <advertised id="" router=""> <ls type=""></ls></advertised></lsid></i> )	
	Adjacency was terminated due to a request from the LSA that does not exist in the database. <ul> <li><router id="">: Neighboring router's router ID</router></li> <li><address>: Neighboring router's address</address></li> <li><interface name="">: Interface name</interface></li> <li><lsid>: LSID of LSA</lsid></li> <li><advertised id="" router="">: LSA advertising router ID</advertised></li> <li><ls type="">: LSA LS type code</ls></li> </ul> [Action] Check the unicast routing program (OSPFv3) of the neighboring router.		
05050300	85	The adjacency to a neighbor was lost because the adjacency timed out. (router ID = < <i>router id&gt;</i> , address (name) = < <i>address&gt;</i> (< <i>interface name&gt;</i> )	
	Hello packet w router is deactiv router. • < <i>router id&gt;</i> • < <i>address&gt;</i> • < <i>interface</i> [Action] If this error occ	terminated because Hello packets were not received during a given interval after the last as received from the neighboring router. This message is output when the neighboring vated, or if a problem occurs in communication between the Device and the neighboring >: Neighboring router's router ID : Neighboring router's address name>: Interface name purs frequently, shorten the interval for sending Hello packets (hello-interval) or extend ne that adjacency is to be maintained (dead-interval).	

Message ID	Event level	Message text	
	Description and action		
05050301	85	The adjacency to a neighbor was lost because a neighbor did not receive a Hello packet recently. (router ID = <i><router id=""></router></i> , address (name) = <i><address></address></i> ( <i><interface name=""></interface></i> )	
	<ul> <li>message is outp properly receiv.</li> <li><router id=""></router></li> <li><address>:</address></li> <li><interface is<="" li=""> <li>[Action]</li> <li>If this error occ</li> </interface></li></ul>	<ul> <li>terminated because the neighboring router no longer recognizes the Device. This but when the neighboring router is restarted or Hello packets sent by the Device are no ed by the neighboring router.</li> <li>Neighboring router's router ID</li> <li>Neighboring router's address name&gt;: Interface name</li> <li>urs frequently, shorten the interval for sending Hello packets (hello-interval) or extendent that adjacency is to be maintained (dead-interval).</li> </ul>	
05050400	85	A graceful restart failed because a neighbor was not running as a helper. (domain = <domain id="">, router ID = <router id="">)</router></domain>	
		art failed because the neighboring router is not operating as a helper.	
	• <router id=""></router>	/>: OSPFv3 domain ID : Neighboring router's router ID	
	[Action] Check the conf	iguration of a graceful restart of the neighboring router.	
05050401	85	A graceful restart failed because a neighbor stopped working as a helper. (domain = <domain id="">, router ID = <router id="">)</router></domain>	
	<ul> <li>A graceful restart failed because the neighboring router stopped operating as a helper.</li> <li><domain id="">: OSPFv3 domain ID</domain></li> <li><router id="">: Neighboring router's router ID</router></li> <li>[Action]</li> <li>If this error occurs frequently, check the OSPF status of the neighboring router and the cause of termination of the helper operation.</li> </ul>		
05050402	85	A graceful restart failed because the system failed in LSA synchronization between all the neighbors. (domain = $<$ <i>domain id</i> $>$ )	
	A graceful restart failed because reconnection and LSA synchronization with all of the neighbor routers connected before the restart could not be performed within the restart time. • <domain id="">: OSPFv3 domain ID [Action] Check the configuration of the restart time.</domain>		
05050500	85	The system stopped acting as a helper because the network topology changed. (route $ID = \langle router \ id \rangle$ )	
	The helper operation stopped because the topology was changed. • <router id="">: Neighboring router's router ID [Action] None.</router>		
05050501	85	The system stopped acting as a helper because the restart timed out. (router ID = < <i>router id&gt;</i> )	
	<ul> <li><router id=""></router></li> <li>[Action]</li> <li>1. Check if the</li> </ul>	ration stopped because the waiting time for restart elapsed. Neighboring router's router ID e neighboring router has stopped the restart operation. stopped, review the restart time of the neighboring router.	

## 7.5 BGP4

The following table shows the system messages of the BGP4 message type.

<i>Table</i> 7-5:	System messages	s of the BGP4	message type

Message ID	Event level	Message text	
	Description and action		
05070000	85	A peer connection has been established. (peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )])	
	• <bgp name<="" td=""><td>with the relevant peer was established. &gt;: Connection target peer name n&gt;: Description name of the connection target peer</td></bgp>	with the relevant peer was established. >: Connection target peer name n>: Description name of the connection target peer	
05070001	85	A peer connection closed because of a change in the interface state. (peer = < <i>bgp</i> name>[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected due to a change in the interface state.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>Check the cause of the change in the interface state.</li> </ul>		
05070003	<b>S</b> 6	A peer connection closed because the peer configuration was deleted. (peer = < <i>bg</i> / <i>name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected due to a change (deletion or change of the peer information) in the configuration.</li> <li>                 </br></br></br></br></br></li></ul>		
05070004	86	A peer connection closed because of a configuration change. (peer = < <i>bgp name</i> > (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected due to a change in the configuration.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>None.</li> </ul>		
05070005	<b>S</b> 6	A peer connection closed because of the execution of 'clear ip bgp' command. (peer < <i>bgp name</i> >[ (< <i>description</i> >)])	
	The connection with the relevant peer was disconnected by executing the clear ip bgp command. <ul> <li><bgp name="">: Connection target peer name</bgp></li> <li><bgc>description&gt;: Description name of the connection target peer</bgc></li> </ul> <li>[Action]</li> <li>None.</li>		
05070006	<b>S</b> 6	A peer connection has been reestablished in a graceful restart. (peer = <bgp name=""> (<description>)])</description></bgp>	
	• <bgp name?<="" td=""><td>with the relevant peer was reestablished. &gt;: Connection target peer name n&gt;: Description name of the connection target peer</td></bgp>	with the relevant peer was reestablished. >: Connection target peer name n>: Description name of the connection target peer	

Message ID	Event level	Message text	
	Description and action		
05070007	S6	An End-Of-RIB marker was received. (source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
		vas received. e>: Source peer name on>: Description name of the source peer	
05070008	S6	An End-Of-RIB marker was sent. (destination peer = <bgp name="">[ (<description>)])</description></bgp>	
		e>: Target peer name e>: Description name of the destination peer	
05070009	S6	Learning of a route information from receiving routers has finished.	
	Route learning [Action] None.	from receiving routers has finished.	
05070010	S5	The system has stopped route learning from at least one receive router and started route advertisement.	
	Route learning from some of the receiving routers will be stopped, and route advertisement will start. [Action] None.		
05070100	S4	A connection to a peer failed because the local address was unusable. (peer = <bgr></bgr> bgr name>[ ( <description>)], address = <ipv4 address="">)</ipv4></description>	
	<ul> <li>An attempt to establish a connection failed because the address used for establishing a connection with the relevant peer could not be used.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li><ip><ip><ip><ip><ip><ip><ip><ip><ip><i< td=""></i<></ip></ip></ip></ip></ip></ip></ip></ip></ip></li></ul>		
05070101	S3	The peer remains in idle state because the interface to be used to the peer connection was not found. (peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )])	
	<ul> <li><bgp li="" name<=""> <li><description< li=""> <li>[Action]</li> <li>1. Check the</li> </description<></li></bgp></li></ul>	ins in an idle state because the interface connected to the relevant peer cannot be foun- e>: Connection target peer name on>: Description name of the connection target peer configuration. guration is correct, check the state of the interface to be connected with the relevant peer	

Message ID	Event level	Message text
		Description and action
05070102	\$3	The peer remains in idle state because the local address to be used to the peer connection was not on the same network as the peer. (peer = <bgp name="">[ (<description>)], address = <ipv4 address="">)</ipv4></description></bgp>
	<ul> <li>The peer remains in an idle state because the address used for connecting with the relevant peer does not exist in the same network.</li> <li>  -                   </br></br></li> <li>              </li> <li>The peer remains in an idle state because the address used for connecting with the relevant peer does not exist in the same network.</li> <li>    </li> <li>    <br< td=""></br<></li></ul>	
05070103	\$3	The peer remains in idle state because the interface for the local address to be used to the peer connection was not found. (peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], local address = <i><ipv4 address=""></ipv4></i> )
	<ul> <li>The peer remains in an idle state because the interface for the device used for connecting with the relevant peer cannot be found.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li><ip><ip><ip><ip><ip><ip><ip><ip><ip><i< td=""></i<></ip></ip></ip></ip></ip></ip></ip></ip></ip></li></ul>	
05070200	S4	A connection request was ignored because an acceptance of a connection failed. (socket = <socket>, error = <error string="">)</error></socket>
	The connection request was ignored because acceptance of the connection failed. <ul> <li><socket>: Socket descriptor number</socket></li> <li><error string="">: Error cause</error></li> </ul> <li>[Action] If this error occurs frequently, check the cause of the error.</li>	
05070201	S4	The connection will be closed because a fetching of the address to be used to connection failed.
	connection faile [Action]	will be disconnected because extraction of the address used for establishing a d. urs frequently, check the unicast routing program (BGP4) in the peer.

Message ID	Event level	Message text	
	Description and action		
05070202	85	A connection request was ignored because no MD5 digest was attached to the received TCP segment. (source IPv4 + TCP port = <i><source ipv4=""/></i> + <i><tcp no.="" port=""></tcp></i> ) destination IPv4 + TCP port = <i><destination ipv4=""></destination></i> + <i><tcp no.="" port=""></tcp></i> )	
	<ul> <li>The connection request was ignored because the MD5 authentication option is not set for the received TCP segment. This system message is output according to the following conditions: <ol> <li>The messages from the first to the 16th event are output.</li> <li>After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs.</li> <li>If an event occurs three minutes or more after the last event occurred, this message is output depending on 1 and 2 above.</li> </ol> </li> <li>Note that the above numbers indicate the total number of times the following messages are output. Message type: BGP4 Message ID: 05070202 Message type: BGP4 Message ID: 05070203 <ul> <li><i><source ipv4=""/></i>: Source IPv4 address</li> <li><i><tcp no.="" port=""></tcp></i>: TCP port number</li> <li><i><destination ipv4=""></destination></i>: Destination IPv4 address</li> </ul> </li> <li>[Action]</li> <li>Check whether the MD5 authentication is set in BGP4 of the remote device.</li> <li>If it is not set, set the MD5 authentication so that it matches.</li> <li>If the setting matches, check whether TCP segments are sent from a peer other than the source BGP4 peer.</li> </ul>		
05070203	\$5	A connection request was ignored because an invalid MD5 digest was attached. (source IPv4 + TCP port = <i><source ipv4=""/></i> + <i><tcp no.="" port=""></tcp></i> , destination IPv4 + TCP port = <i><destination ipv4=""></destination></i> + <i><tcp no.="" port=""></tcp></i> )	
	<ul> <li>The connection request was ignored because the MD5 authentication option for the received TCP segment is invalid. This system message is output according to the following conditions: <ol> <li>The messages from the first to the 16th event are output.</li> <li>After 17 times from the beginning of the event occurrence, this message is output once every 25 times the event occurs.</li> <li>If an event occurs three minutes or more after the last event occurred, this message is output depending on 1 and 2 above.</li> </ol> </li> <li>Note that the above numbers indicate the total number of times the following messages are output. Message type: BGP4 Message ID: 05070202 Message type: BGP4 Message ID: 05070203 <ul> <li><i><source ipv4=""/></i>: Source IPv4 address</li> <li><i><tcp no.="" port=""></tcp></i>: TCP port number</li> <li><i><destination ipv4=""></destination></i>: Destination IPv4 address</li> </ul> </li> <li>[Action]</li> <li>Check if the MD5 authentication keys match in BGP4 of the local and remote devices.</li> <li>If the MD5 authentication keys match, check if TCP segments are sent from a peer other than th source BGP4 peer.</li> </ul>		
05070300	S4	A peer connection closed because a message could not be sent to the peer owing to the lack of space in socket buffer. (send request message length = < <i>length</i> > bytes, destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)], error = < <i>error string</i> >)	
	connection with <ul> <li><length>: S</length></li> <li><bgp li="" name<=""> <li><description< li=""> <li><error li="" strint<=""> <li>[Action]</li> </error></li></description<></li></bgp></li></ul>	<ul> <li>end a message to the relevant peer failed because the socket buffer became full. The the relevant peer was disconnected.</li> <li>end request message length</li> <li>: Target peer name</li> <li>m&gt;: Description name of the destination peer</li> <li>g&gt;: Error cause</li> <li>ars frequently, check the cause of the error.</li> </ul>	

Message ID	Event level	Message text	
	Description and action		
05070301	S4	A peer connection closed because a message could not be sent to the peer. (message length = < <i>length&gt;</i> bytes, destination peer = < <i>bgp name&gt;</i> [ (< <i>description&gt;</i> )], error = < <i>error string&gt;</i> )	
	The connection with the relevant peer was disconnected because an attempt to send a message to that peer failed. • < <i>length</i> >: Send request message length • < <i>bgp name</i> >: Target peer name • < <i>description</i> >: Description name of the destination peer • < <i>error string</i> >: Error cause [Action] If this error occurs frequently, check the cause of the error.		
05070302	85	A message could not be sent to a peer because the connection closed. (send request = < <i>length</i> > bytes, destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>An attempt to send the message to the relevant peer failed because the connection was disconnected.</li> <li><length>: Send request message length</length></li> <li><le><le>description&gt;: Target peer name</le></le></li> <li><le><le><le><le><le>clength&gt;: Description name of the destination peer</le></le></le></le></le></li> </ul>		
05070303	S4	A peer connection closed because the system had repeatedly failed in sending a message to the peer. (destination peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], error = <i><error string=""></error></i> )	
	The connection with the relevant peer was disconnected because the system had repeatedly failed in sending a message to the peer. <ul> <li><bgp name="">: Target peer name</bgp></li> <li><bgc>description&gt;: Description name of the destination peer</bgc></li> <li>      (Action]</li> </ul> <li>If this error occurs frequently, check the cause of the error.</li>		
05070304	S4	A peer connection closed because the system failed in sending a message to the peer. (send request = < <i>length1</i> > bytes, sent data = < <i>length2</i> > bytes, destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)], error = < <i>error string</i> >)	
	<pre>peer failed.     </pre> <pre>ever failed.     </pre> <pre></pre>	with the relevant peer was disconnected because an attempt to send a message to that Send request data length Sent data length >: Target peer name n>: Description name of the destination peer ng>: Error cause urs frequently, check the cause of the error.	

Message ID	Event level	Message text	
		Description and action	
05070305	85	A message was not sent to a peer because the peer connection closed. (send request = < <i>length1&gt;</i> bytes, sent data = < <i>length2&gt;</i> bytes, destination peer = < <i>bgp name&gt;</i> [ (< <i>description&gt;</i> )])	
	<ul> <li>An attempt to send the message to the relevant peer failed because the connection was disconnected.</li> <li><length1>: Send request data length</length1></li> <li><length2>: Sent data length</length2></li> <li><bgp name="">: Target peer name</bgp></li> <li><description>: Description name of the destination peer</description></li> <li>[Action]</li> <li>If this error occurs frequently, check the cause of the disconnection.</li> </ul>		
05070306	85	A peer connection closed because the system had repeatedly failed in sending a message to the peer. (destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)], sent data = < <i>length1</i> >, remaining = < <i>length2</i> >, error = < <i>error string</i> >)	
	sending a messa <ul> <li><bgp li="" name<=""> <li><descriptio< li=""> <li><length1>:</length1></li> <li><length2>:</length2></li> <li><error li="" strin<=""> <li>[Action]</li> </error></li></descriptio<></li></bgp></li></ul>	with the relevant peer was disconnected because the system had repeatedly failed in age to the peer. >: Target peer name m>: Description name of the destination peer Sent data length Length of the data that remains unsent ng>: Error cause urs frequently, check the cause of the error.	
05070307	S4	A peer connection closed because the system had repeatedly failed in sending KEEPALIVE messages to the peer. (destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)], error = < <i>error string</i> >)	
	sending KEEPAJ • bgp name • <descriptio </descriptio  • <error strin<br=""></error> [Action]	with the relevant peer was disconnected because the system had repeatedly failed in LIVE messages to the peer. >: Target peer name m>: Description name of the destination peer mg>: Error cause urs frequently, check the cause of the error.	

Message ID	Event level	Message text	
	Description and action		
05070308	S5	A NOTIFICATION message was sent to a peer. (destination peer = <bgp name="">[ (<description>)], code = <code> (<code string="">)[, sub code = <sub code=""> (<sub code string&gt;)][, value = <value>][, data = <data>])</data></value></sub </sub></code></code></description></bgp>	
	<ul> <li><bgp li="" name:<=""> <li><bgp li="" name:<=""> <li><description< li=""> <li><code> (<colored of="" secon<="" second="" td="" the=""><td>ON message was sent to the relevant peer. &gt;: Target peer name n&gt;: Description name of the destination peer code string&gt;): Error code ((<i>sub code string</i>&gt;): Error subcode ((Message Header Error) code 1 (lost connection synchronization) code 2 (bad length) code 3 (bad message type) 2 (OPEN Message Error) code 0 (unsupported version) code 2 (bad AS number) code 3 (bad BGP ID) code 4 (unsupported version) code 4 (unsupported version) code 5 (bad AS number) code 6 (unacceptable holdtime) 6 (UPDATE Message Error) code 1 (invalid attribute list) code 2 (unknown well known attribute) code 3 (missing well known attribute) code 4 (attribute length) code 6 (bad ORIGIN attribute) code 6 (bad ORIGIN attribute) code 9 (error with optional attribute) code 10 (bad address or prefix field) code 11 (AS path attribute problem) 4 (Hold Timer Expired Error) 5 (Crease) <i>code string</i>&gt; for invalid <i><code< i="">&gt; <i>sub code string</i>&gt; for invalid <i><code< i="">&gt; <i>formation</i> in the data field of the NOTIFICATION message (Hexadecimal representation) formati</code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></td></colored></code></li></description<></li></bgp></li></bgp></li></ul>	ON message was sent to the relevant peer. >: Target peer name n>: Description name of the destination peer code string>): Error code (( <i>sub code string</i> >): Error subcode ((Message Header Error) code 1 (lost connection synchronization) code 2 (bad length) code 3 (bad message type) 2 (OPEN Message Error) code 0 (unsupported version) code 2 (bad AS number) code 3 (bad BGP ID) code 4 (unsupported version) code 4 (unsupported version) code 5 (bad AS number) code 6 (unacceptable holdtime) 6 (UPDATE Message Error) code 1 (invalid attribute list) code 2 (unknown well known attribute) code 3 (missing well known attribute) code 4 (attribute length) code 6 (bad ORIGIN attribute) code 6 (bad ORIGIN attribute) code 9 (error with optional attribute) code 10 (bad address or prefix field) code 11 (AS path attribute problem) 4 (Hold Timer Expired Error) 5 (Crease) <i>code string</i> > for invalid <i><code< i="">&gt; <i>sub code string</i>&gt; for invalid <i><code< i="">&gt; <i>formation</i> in the data field of the NOTIFICATION message (Hexadecimal representation) formati</code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i></code<></i>	
05070400	S5 The connection	A peer connection closed because a header marker in the received message was invalid. (peer = < <i>bgp name</i> > [ (< <i>description</i> >)]) with the relevant peer was disconnected because a header marker in the received	
		valid. >: Source peer name n>: Description name of the source peer	
	Check the unicast routing program (BGP4) in the peer.		

Message ID	Event level	Message text	
	Description and action		
05070401	\$5	A NOTIFICATION message from a peer was truncated. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)], length = < <i>length</i> >)	
	<ul> <li><bgp li="" name<=""> <li><description< li=""> <li><length>::</length></li> <li>[Action]</li> </description<></li></bgp></li></ul>	the NOTIFICATION message received from the relevant peer was invalid. >: Source peer name m>: Description name of the source peer Received data length ast routing program (BGP4) in the peer.	
05070402	\$5	A peer connection closed because there was an error in an UPDATE message from the peer. (error = < <i>code</i> > (< <i>error string</i> >), peer = < <i>bgp name</i> >[ (< <i>description</i> >)] < <i>length</i> > bytes error data, first 5 bytes = < <i>error data</i> >)	
	The connection with the relevant peer was disconnected because there was an error in an UPDATE message from the peer. • <code> (<error string="">): Error cause • <bgp name="">: Source peer name • <description>: Description name of the source peer • <length>: Error data length • <error data="">: First 5 bytes of error data [Action] Check the unicast routing program (BGP4) in the peer.</error></length></description></bgp></error></code>		
05070403	S4       A peer connection closed because the system failed in receiving a message from the peer. (source = <bgp name="">[ (<description>)], error = <error string="">)         The connection with the relevant peer was disconnected because the system failed in receiving a message from the peer.         • <bgp name="">: Source peer name         • <description>: Description name of the source peer         • <error string="">: Error cause         [Action]         If this error occurs frequently, check the cause of the error.</error></description></bgp></error></description></bgp>		
05070404	S5       A peer connection closed because the system failed in receiving a message from the peer owing to an unexpected EOF. (source = <bgp name="">[ (<description>)])         The connection with the relevant peer was disconnected because the system failed in receiving a message from the peer owing to an unexpected EOF.         •       <bgp name="">: Source peer name         •       <bgp name="">: Description name of the source peer         [Action]       If this error occurs frequently, check the cause of the disconnection.</bgp></bgp></description></bgp>		
05070405	received from t • bgp name • <description • <message to<br="">invalid, co • <length>: To [Action]</br></length></message></description 	A peer connection closed because of an invalid message length. (source = <bgp name&gt;[ (<description>)], message type = <message type="">, length = <length>)a with the relevant peer was disconnected because an invalid-length message was hat peer.see:&gt;: Source peer namesource peerom&gt;: Description name of the source peersource peertype&gt;: Received message typeDPEN, UPDATE, NOTIFICATION, KEEPALIVEReceived data lengthast routing program (BGP4) in the peer.</length></message></description></bgp 	

Message ID	Event level	Message text	
		Description and action	
05070406	85	A peer connection closed because of a reception of an unexpected message type. (source = <bgp name="">[ (<description>)], received type = <message type1="">, expected type = <message type2="">[ or <message 2="" type="">])</message></message></message></description></bgp>	
	<ul> <li>The connection with the relevant peer was disconnected because a message whose message type is inappropriate for the current state was received from that peer.</li> <li>              <b< td=""></b<></br></br></br></br></li></ul>		
05070407	85	A peer connection closed because an OPEN message from the peer was too short. (source = <bgp name="">[ (<description>)], BGP version in message = <version>, message length = <length> octets)</length></version></description></bgp>	
	The connection with the relevant peer was disconnected because an OPEN message from the peer was too short. • <bgp name="">: Source peer name • <description>: Description name of the source peer • <version>: BGP version number in the received message • <length>: Received data length [Action] Check the unicast routing program (BGP4) in the peer.</length></version></description></bgp>		
05070408	85	A peer connection closed because an OPEN message from a peer had an unsupported BGP version. (version = <version>, peer = <bgp name="">[ (<description>)])</description></bgp></version>	
	The connection with the relevant peer was disconnected because an OPEN message that has an unsupported BGP version number was received from that peer. <ul> <li><version>: BGP version number of received messages</version></li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> </ul> <li>[Action] <ul> <li>Make sure that the peer supports BGP4.</li> </ul> </li>		
05070409	85	A peer connection closed because the holdtime in an OPEN message from the peer was too small. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], holdtime = <i><holdtime></holdtime></i> )	
	<ul> <li>less than three s</li> <li><bgp li="" name<=""> <li><descriptio< li=""> </descriptio<></li></bgp></li></ul>	with the relevant peer was disconnected because an OPEN message whose hold time is seconds was received from that peer. >: Source peer name n>: Description name of the source peer :: Hold time in the received message configuration.	

Message ID	Event level	Message text	
	Description and action		
05070410	S5	A peer connection closed because the BGP identifier in an OPEN message from the peer was invalid. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], invalid ID = <i><router id=""></router></i>	
	The connection with the relevant peer was disconnected because an OPEN message that has an invalid BGP identifier was received from that peer. • <i><bgp name=""></bgp></i> : Source peer name • <i><description></description></i> : Description name of the source peer • <i><router id=""></router></i> : BGP identifier in the received message [Action] Check the unicast routing program (BGP4) in the peer.		
05070411	S5	A peer connection closed because an OPEN message from the peer had an invalid option code. (source = <i> bgp name&gt;</i> [ ( <i><description></description></i> )], option code = <i><option></option></i> )	
	The connection with the relevant peer was disconnected because an OPEN message from the peer had an invalid option code.         • <bgp name="">: Source peer name         • <description>: Description name of the source peer         • <option>: Option code in the received message         [Action]         Check the unicast routing program (BGP4) in the peer.</option></description></bgp>		
05070412	S3	A peer connection closed because an OPEN message from the peer had an AS number different from the configured one. (source = $\langle bgp \ name \rangle [(\langle description \rangle)]$ , message AS. = $\langle asl \rangle$ , configured AS. = $\langle as2 \rangle$ )	
	<ul> <li>The connection with the relevant peer was disconnected because an OPEN message from the peer had an AS number different from the configured one.</li> <li>                     </br></br></br></br></br></br></br></li></ul>		
05070413	\$5	A peer connection closed because the BGP version in a KEEPALIVE message from the peer was not supported by the system. (source = < <i>bgp name</i> >[ (< <i>description</i> >)] source version = < <i>version1</i> >, this system's version = < <i>version2</i> >)	
	mismatched BC • <bgp name<br="">• <descriptio • <version1> • <version2> [Action]</version2></version1></descriptio </bgp>	with the relevant peer was disconnected because a KEEPALIVE message that has a GP version number was received from that peer. >: Source peer name n>: Description name of the source peer :: Remote BGP version number :: Local BGP version number the peer supports BGP4.	
05070414	\$3	A peer connection closed because the peer sending an OPEN message was not configured in the system. (source = <i><bgp name=""></bgp></i> )	
	<ul> <li>The connection with the relevant peer was disconnected because the peer sending an OPEN message was not configured in the system.</li> <li></li></ul>		

Message ID	Event level	Message text	
	Description and action		
05070415	S5	A peer connection closed because an OPEN message was sent from the peer in an unexpected state. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], state = <i><state></state></i> )	
	The connection with the relevant peer was disconnected because an OPEN message was received from that peer during the Idle, OpenConfirm, or Established state. •             		
	[Action]	Confirm, Established has become unstable. If this error occurs frequently, check the cause of the instability	
05070416	85	A peer connection closed because of an unsupported BGP version in an OPEN message. (received version = <version>, source = <bgr name="">[ (<description>)]</description></bgr></version>	
	The connection with the relevant peer was disconnected because an OPEN message that has an unsupported BGP version number was received from that peer. <ul> <li><version>: BGP version number of received messages</version></li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> </ul> <li>[Action]</li> <li>Check the BGP version supported by the peer.</li>		
05070417	85	An OPEN message was ignored because of an unexpected extra data. (source = <bg name="">[ (<description>)])</description></bg>	
	<ul> <li>The OPEN message was ignored because unnecessary data is appended to the message from the relevant peer.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer [Action]</description></li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		
05070418	\$3	The configured Capabilities for the system did not match with the received Capabilities from a peer. Only a set of matched capabilities has been enabled for the peer. (source = 	
	<ul> <li>The capability settings of the Device do not match with the capability received from the peer. Only the matched capability is enabled.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li>[Action]</li> <li>Check the configuration.</li> </ul>		
05070419	85	A peer connection closed because the message length in a message from the peer wa invalid. (source = < <i>bgp name</i> >[ (< <i>description</i> >)], length in header = < <i>length</i> >)	
	the peer was inv • - - - 	with the relevant peer was disconnected because the message length in a message from valid. >: Source peer name n>: Description name of the source peer Message length of the received message header ast routing program (BGP4) in the peer.	

Message ID	Event level	Message text	
	Description and action		
05070420	S5	A peer connection closed because a message type in a message from the peer was invalid. (source = log name>[ ( <description>)], type = <type>)</type></description>	
	The connection with the relevant peer was disconnected because the message type of a message received from that peer is invalid.  •  •  		
05070421	S5	A peer connection closed because an OPEN message was received from the peer in the Established state. (source = the estate. (source = the e	
	<ul> <li>The connection with the relevant peer was disconnected because an OPEN message was received from the peer in the ESTABLISHEDstate.</li> <li>    &lt;</li></ul>		
05070422	\$5	A peer connection closed because of a too short UPDATE message from the peer. (source = <bgp name="">[ (<description>)], message length = <length>)</length></description></bgp>	
	The connection with the relevant peer was disconnected because of a too short UPDATE message from the peer. <ul> <li><bgp name="">: Source peer name</bgp></li> <li><bgr></bgr>description&gt;: Description name of the source peer</li> <li><length>: Received data length</length></li> </ul> <li>[Action]</li> <li>Check the unicast routing program (BGP4) in the peer.</li>		
05070423	S5	A peer connection closed because an unreachable prefix length of an UPDATE message from the peer exceeded the message length. (prefix length = < <i>length1</i> >, message length = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	The connection with the relevant peer was disconnected because an unreachable prefix length of an UPDATE message from the peer exceeded the message length.         • <length1>: Prefix length of unreachable routing information in the received message         • <length2>: Received data length         • <bgp name="">: Source peer name         • <description>: Description name of the source peer         [Action]         Check the unicast routing program (BGP4) in the peer.</description></bgp></length2></length1>		
05070424	\$5	An UPDATE message was ignored because a path attribute length of the UPDATE message from a peer was 0, but there was a data in the path attribute. (source = <bg></bg> name>[ ( <description>)], data length = <length> bytes)</length></description>	
	<ul> <li>The attribute length of the UPDATE message from the relevant peer is 0 even though actual data exists.</li> <li><i><bgp name=""></bgp></i>: Source peer name</li> <li><i><description></description></i>: Description name of the source peer</li> <li><i><length></length></i>: Actual data length</li> <li>[Action]</li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		

Message ID	Event level	Message text	
		Description and action	
05070425	85	A peer connection closed because a path attribute length of an UPDATE message from the peer exceeded the actual path attribute length. (received attribute lengths = < <i>length1</i> >, actual length = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<pre>message from th</pre>		
	• <i><descriptio< i=""> [Action]</descriptio<></i>	<ul> <li>&gt;: Source peer name</li> <li>n&gt;: Description name of the source peer</li> <li>nst routing program (BGP4) in the peer.</li> </ul>	
05070426	85	A peer connection closed because there was no nexthop attribute in an UPDATE message from the peer. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )])	
	The connection with the relevant peer was disconnected because there was no nexthop attribute in an UPDATE message from the peer.         • <bgp name="">: Source peer name         • <description>: Description name of the source peer         [Action]         Check the unicast routing program (BGP4) in the peer.</description></bgp>		
05070427	85	The LOCALPREF attribute in an UPDATE message was ignored because the UPDATE message was sent from an external peer. (source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The LOCALPREF attribute is included in the UPDATE message from the external peer. The LOCALPREF attribute was ignored.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer [Action]</description></li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		
05070428	85	A peer connection closed because there was no LOCALPREF attribute in a received UPDATE message from the internal peer. (source = 	
	<ul> <li>The connection with the relevant peer was disconnected because there was no LOCALPREF attribute in a received UPDATE message from the internal peer.</li> <li><bgp name="">: Source peer number</bgp></li> <li><description>: Description name of the source peer [Action]</description></li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		
05070429	85	The UPDATE message was ignored because a received UPDATE message from a peer had no reachable prefixes in a path attribute. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )])	
	The UPDATE message was ignored because the UPDATE message from the relevant peer has path attributes but does not have the corresponding routing information. <ul> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer [Action]</description></li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		

Message ID	Event level	Message text	
	Description and action		
05070430	85	A peer connection closed because an UPDATE message from the peer had an invalid prefix length in the unreachable route information. (source = bgp name>[ ( <description>)], prefix length = <length>)</length></description>	
	routing informa • <bgp name:<br="">• <description • <length>: P [Action]</length></description </bgp>	with the relevant peer was disconnected because the prefix length of unreachable tion of the UPDATE message received from that peer is invalid. >: Source peer name n>: Description name of the source peer Prefix length in received messages ast routing program (BGP4) in the peer.	
05070431	85	A peer connection closed because a prefix length in an UPDATE message from the peer exceeded the remaining unreachable prefix data. (received prefix length = < <i>length1</i> >, actual length = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected because the prefix length of unreachable routing information of the UPDATE message received from that peer exceeds the prefix data of unreachable routing information.</li> <li><length1>: Prefix length in received messages</length1></li> <li><length2>: Entity data length</length2></li> <li><length2>: Source peer name</length2></li> <li><description>: Description name of the source peer</description></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		
05070434	85	A route information was ignored because an UPDATE message from a peer had an invalid unreachable route. (route = < <i>ipv4 address</i> >/< <i>mask</i> >, source = < <i>bgp name</i> > (< <i>description</i> >)], location = < <i>length1</i> > of < <i>length2</i> >)	
	<ul> <li>Invalid routes of unreachable routing information of the UPDATE message received from the peer are ignored.</li> <li>&lt;<i>ipv4 address</i>&gt;: Destination address of unreachable routing information</li> <li>&lt;<i>mask</i>&gt;: Network mask of unreachable routing information</li> <li>&lt;<i>bgp name</i>&gt;: Source peer name</li> <li>&lt;<i>description</i>&gt;: Description name of the source peer</li> <li>&lt;<i>length1</i>&gt; of &lt;<i>length2</i>&gt;: The location of invalid information in the message [Action]</li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		
05070435	85	A peer connection closed because an UPDATE message from the peer in AS $\langle asl \rangle$ had an AS-path with the first-hop AS $\langle as2 \rangle$ . (peer = $\langle bgp name \rangle$ [( $\langle description \rangle$ )]	
	AS < <i>as1</i> > had a • <i><as1< i="">&gt;: AS • <i><as2< i="">&gt;: Nex • <i><bgp i="" name<="">? • <i><description< i=""> [Action]</description<></i></bgp></i></as2<></i></as1<></i>	with the relevant peer was disconnected because an UPDATE message from the peer in an AS-path with the first-hop AS < <i>as2</i> >. number of the source peer tt-hop AS number in the received message >: Source peer name <i>n</i> >: Description name of the source peer ast routing program (BGP4) in the peer.	

Message ID	Event level	Message text		
		Description and action		
05070436	\$5	A peer connection closed because of an invalid prefix length in an UPDATE message from the peer. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], prefix length = <i><length></length></i> )		
	The connection with the relevant peer was disconnected because the prefix length of the UPDATE message received from that peer is invalid. • <i><bgp name=""></bgp></i> : Source peer name • <i><description></description></i> : Description name of the source peer • <i><length></length></i> : Prefix length in received messages [Action] Check the unicast routing program (BGP4) in the peer.			
05070437	85	A peer connection closed because a prefix length in an UPDATE message from the peer exceeded the actual prefix length. (received prefix length = < <i>length1</i> >, actual length = < <i>length2</i> >, source = < <i>bgp name&gt;</i> [ (< <i>description&gt;</i> )])		
	message receiv   <td>with the relevant peer was disconnected because the prefix length of the UPDATE ed from that peer exceeds the actual prefix length. Prefix length in received messages Actual prefix length &gt;: Source peer name m&gt;: Description name of the source peer ast routing program (BGP4) in the peer.</td>	with the relevant peer was disconnected because the prefix length of the UPDATE ed from that peer exceeds the actual prefix length. Prefix length in received messages Actual prefix length >: Source peer name m>: Description name of the source peer ast routing program (BGP4) in the peer.		
05070440	85	An invalid route information was ignored in an UPDATE message from a peer. (source = <bgp name="">[ (<description>)], address = <ipv4 address="">/<mask>, location = <length1> of <length2>)</length2></length1></mask></ipv4></description></bgp>		
	<ul> <li>The route was ignored because the UPDATE message received from the peer includes invalid routes.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li><ipv4 address="">: Destination address</ipv4></li> <li><mask>: Network mask</mask></li> <li><length1> of <length2>: The location of invalid information in the received message.</length2></length1></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>			
05070441	85	A network 0 route from a peer was ignored. (destination address = < <i>ipv4 address</i> >/ < <i>mask</i> >, peer = < <i>bgp name</i> >[ (< <i>description</i> >)], invalid info. in message = < <i>length1</i> > of < <i>length2</i> >)		
	<ul> <li><ipv4 addr<="" li=""> <li><mask>: N</mask></li> <li><bgp li="" name<=""> <li><description< li=""> <li><length1></length1></li> <li>[Action]</li> </description<></li></bgp></li></ipv4></li></ul>	ed to network 0 from the relevant peer are ignored. ess>: Destination address letwork mask >: Source peer name m>: Description name of the source peer of <length2>: The location of invalid information in the received message. ast routing program (BGP4) in the peer.</length2>		
05070442	\$5	A loopback route from a peer was ignored. (source = <bgp name="">[ (<description>)], location = <length1> of <length2>)</length2></length1></description></bgp>		
	<ul> <li><bgp li="" name<=""> <li><description< li=""> <li><length1></length1></li> <li>[Action]</li> </description<></li></bgp></li></ul>	es from the relevant peer are ignored. >: Source peer name m>: Description name of the source peer of < <i>length2</i> >: The location of invalid information in the received message. ast routing program (BGP4) in the peer.		

Message ID	Event level	Message text	
	Description and action		
05070443	85	A peer connection closed because of an invalid MP_UNREACH_NLRI attribute length in an UPDATE message. (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	The connection with the relevant peer was disconnected because the length of the MP_UNREACH_NLRI attribute for the UPDATE message from that peer was invalid. • <length>: Received MP_UNREACH_NLRI attribute length • <length>: Source peer name • <lescription>: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.</lescription></length></length>		
05070444	85	The MP_UNREACH_NLRI attribute was ignored because of an invalid address family in the MP_UNREACH_NLRI attribute in an UPDATE message from the peer. (source = 	
	<ul> <li>The MP_UNREACH_NLRI attribute was ignored because the address family of the MP_UNREACH_NLRI attribute for the UPDATE message received from the peer is invalid.</li> <li>                        <b< td=""></b<></br></br></br></br></br></br></br></br></br></li></ul>		
05070445	S5	A peer connection closed because of an invalid MP_REACH_NLRI attribute length in an UPDATE message from the peer (no address family length). (attribute length = < <i>length&gt;</i> , source = < <i>bgp name&gt;</i> [ (< <i>description&gt;</i> )])	
	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. No address family exists. The connection with the relevant peer was disconnected. • < <i>length</i> >: Received MP_REACH_NLRI attribute length • < <i>bgp name</i> >: Source peer name • < <i>description</i> >: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.		
05070446	85	The MP_REACH_NLRI attribute was ignored because of an invalid address family in the MP_REACH_NLRI attribute in an UPDATE message from the peer. (source = <bgp name="">[ (<description>)], address family = <address family="">)</address></description></bgp>	
	<ul> <li>The MP_REACH_NLRI attribute was ignored because the address family of the MP_REACH_NLRI attribute for the UPDATE message received from the peer is invalid.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li><address family="">: Address family information of the received MP_REACH_NLRI attribute [Action]</address></li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>		
05070447	\$5	A peer connection closed because of an invalid MP_REACH_NLRI attribute length in an UPDATE message from the peer (no nexthop length field). (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	is invalid. The le peer was discon • <length>: R • <bgp name?<br="">• <description [Action]</description </bgp></length>	e MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer ength of the next-hop attribute has not been configured. The connection with the relevant nected. Received MP_REACH_NLRI attribute length >: Source peer name n>: Description name of the source peer st routing program (BGP4) in the peer.	

Message ID	Event level	Message text	
		Description and action	
05070448	85	A peer connection closed because of an invalid nexthop length in the MP_REACH_NLRI attribute in a UPDATE message from the peer. (nexthop length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	The connection with the relevant peer was disconnected because of an invalid nexthop length in the MP_REACH_NLRI attribute in a UPDATE message from the peer. <ul> <li><length>: Next-hop length of the received MP_REACH_NLRI attribute</length></li> <li><le><le><le><le>description&gt;: Source peer name</le></le></le></le></li> <li></li> <li></li></ul>		
05070449	85	A peer connection closed because of an invalid MP_REACH_NLRI attribute in an UPDATE message from the peer (no nexthop). (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. The next hop has not been configured. The connection with the relevant peer was disconnected. • <length>: Received MP_REACH_NLRI attribute length • <length>: Source peer name • <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.</description></length></length>		
05070450	85	A peer connection closed because of an invalid nexthop route distinguisher (RD) in the MP_REACH_NLRI attribute of an UPDATE message from the peer. (source =  closer route attribute of an UPDATE message from the peer. (source = closer route attribute of an UPDATE message from the peer. (source = closer route attribute of an UPDATE message from the peer. (source = closer route attribute of an UPDATE message from the peer. (source = closer route attribute of an UPDATE message from the peer. (source = closer route attribute of attribute attribute of attribute att	
	The connection with the relevant peer was disconnected because the next-hop route identifier (RD) of the MP_REACH_NLRI attribute for the UPDATE message received from that peer was invalid. • <i><bgp name=""></bgp></i> : Source peer name • <i><description></description></i> : Description name of the source peer • <i><rd1></rd1></i> : <i><rd2></rd2></i> : Next-hop RD of the received MP_REACH_NLRI attribute [Action] Check the unicast routing program (BGP4) in the peer.		
05070451	85	A peer connection closed because of an invalid MP_REACH_NLRI attribute length in an UPDATE message from the peer (no reserved field attribute length). (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	is invalid. The l relevant peer wa • <length>: F • <bgp name<br="">• <descriptio [Action]</descriptio </bgp></length>	e MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer ength of the reserved field attribute has not been configured. The connection with the as disconnected. Received MP_REACH_NLRI attribute length >: Source peer name n>: Description name of the source peer ast routing program (BGP4) in the peer.	

Message ID	Event level	Message text
		Description and action
05070452	85	A peer connection closed because of an invalid MP_REACH_NLRI attribute length in an UPDATE message from the peer (no SNPA length). (attribute length = <length>, source = <bgp name="">[ (<description>)])</description></bgp></length>
	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. The length of the SNPA attribute has not been configured. The connection with the relevant peer was disconnected. • < <i>length</i> >: Received MP_REACH_NLRI attribute length • < <i>bgp name</i> >: Source peer name • < <i>description</i> >: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.	
05070453	85	A peer connection closed because of an invalid MP_REACH_NLRI attribute in an UPDATE message from the peer (no SNPA). (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])
	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. SNPA has not been configured. The connection with the relevant peer was disconnected. • < <i>length</i> >: Received MP_REACH_NLRI attribute length • < <i>bgp name</i> >: Source peer name • < <i>description</i> >: Description name of the source peer [Action] Check the unicast routing program (BGP4) in the peer.	

Message ID	Event level	Message text	
	Description and action		
05070454	85	A peer connection closed because a NOTIFICATION message was received from a peer. (source = < <i>bgp name</i> >[(< <i>description</i> >)], code = < <i>code</i> >(< <i>code string</i> >)[, sub code = < <i>sub code</i> >(< <i>sub code string</i> >)][, value = < <i>value</i> >][, data = < <i>data</i> >])	
	received from a           	Source peer name <i>m</i> >: Description name of the source peer <i>code string</i> >): Error code ( <i>sub code string</i> >): Error subcode 1 (Message Header Error) beode 1 (lost connection synchronization) beode 2 (bad length) beode 3 (bad message type) 2 (OPEN Message Error) beode 0 (unspecified error) beode 1 (unsupported version) beode 2 (bad AS number) beode 3 (bad BGP ID) beode 4 (unsupported optional parameter) beode 4 (unsupported optional parameter) beode 4 (unsupported capability) 3 (UPDATE Message Error) beode 1 (invalid attribute list) beode 2 (unknown well known attribute) beode 3 (bad attribute length) beode 4 (attribute flags error) beode 4 (attribute flags error) beode 4 (attribute flags error) beode 4 (attribute song method) beode 4 (attribute length) beode 9 (error with optional attribute) beode 9 (bad Attribute) beode 9 (load address or prefix field) beode 1 (bad address or prefix field) beode 1 (had Timer Expired Error) 5 (Finite State Machine Error)	
05070455	S5	All routes learned from a peer will be deleted because the peer in a graceful restart could not retain the forwarding routes. (peer =< <i>bgp name</i> >)	
	forwarding rou • <bgp name<="" td=""><td>hed from a peer will be deleted because the peer in a graceful restart could not retain the tes. &gt;&gt;: Connection target peer name</td></bgp>	hed from a peer will be deleted because the peer in a graceful restart could not retain the tes. >>: Connection target peer name	
	[Action] Check the unicast routing program (BGP4) in the peer.		

Message ID	Event level	Message text
	Description and action	
05070456	S4	The number of prefixes received from a peer exceeded the threshold. (source = <bg name="">[ (<description>)], routes from peer = <routes1>, max. routes from peer = <routes2>)</routes2></routes1></description></bg>
	<ul> <li>The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the threshold.</li> <li>                   </br></br></li></ul>	
05070457	\$3	The number of prefixes received from a peer exceeded the limit. If a 'warning-only command is not set, the peer connection will be closed. (source = log name>[ ( <description>)], routes from peer = <routes1>, max. routes from peer = <routes2< td=""></routes2<></routes1></description>
	<ul> <li>The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the maximum value. If warning-only is not specified in the configuration, disconnect the peer.</li> <li>       <br <="" td=""/></li></ul>	
05070458	S5	A peer connection closed because the number of prefixes received from the peer has exceeded the limit. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)])
	<ul> <li>The connection with the relevant peer was disconnected because the the maximum number of learned paths was exceeded.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>Check the number of the paths advertised by the relevant peer.</li> <li>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.</li> </ul>	
05070459	S5	A peer acting as a receiving router could not retain the forwarding routes. A message sent to the peer might be discarded. (peer = $\langle bgp \ name \rangle$ )
	transferred to t • <bgp name<br="">[Action] The negotiation</bgp>	ting as a receiving router cannot save the forwarding routes. Messages that are he relevant peer might be discarded. >>: Connection target peer name n of the graceful restart functionality has notified that the forwarding is not possible. are has occurred on the peer router.

Message ID	Event level	Message text		
	Description and action			
05070460	85	A received path attribute was ignored because an UPDATE message from a peer had a path attribute with type code 0. (source = <i><bgp i="" name<="">&gt;[ (<i><description< i="">&gt;)][, AS path = <i><as number="">: <aspath></aspath></as></i>])</description<></i></bgp></i>		
	was received from hour after the pr			
	• <description< td=""><td><ul> <li>&gt;: Source peer name</li> <li>n&gt;: Description name of the source peer</li> <li>:&gt;: Number of AS numbers</li> </ul></td></description<>	<ul> <li>&gt;: Source peer name</li> <li>n&gt;: Description name of the source peer</li> <li>:&gt;: Number of AS numbers</li> </ul>		
	AS sequentie {AS sequent	AS paths <sup>#</sup> , in the following format: al number: AS_SEQ tial number}: AS_SET		
	[Action]	(AS sequential number): AS_CONFED_SEQUENCE [Action] Check the unicast routing program (BGP4) in the peer.		
05070500	\$5	A peer connection closed because the holdtime for the peer timed out. (peer = < <i>bgp</i> name>[ (< <i>description</i> >)])		
	<ul> <li>The connection with the relevant peer was disconnected because the holdtime for the peer timed out.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>			
05070501	S5	A peer connection closed because no OPEN message received from the peer before the expiry of its holdtime. (peer = < <i>bgp name</i> >)		
	<ul> <li>The connection with the relevant peer was disconnected because the timer for waiting for an OPEN message from that peer timed out.</li> <li><bgp name="">: Connection target peer name [Action]</bgp></li> <li>Check the unicast routing program (BGP4) in the peer.</li> </ul>			
05070502	85	A graceful restart was failed because a peer connection was not reestablished within 'restart-time'. All routes learned from the peer will be deleted. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)])		
	<ul> <li>A graceful restart failed. A connection to the peer router cannot be established within the restart-time specified by the peer router. All the paths learned from the relevant peer will be deleted.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>Check if a communication can be established with the peer router.</li> <li>Check if BGP4 is running on the peer router.</li> <li>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.</li> </ul>			

Message ID	Event level	Message text	
	Description and action		
05070503	S5	A graceful restart was failed because no End-Of-RIB marker received from a restarting router. All routes learned from the peer will be deleted. (peer = < <i>bgp</i> name>[ (< <i>description</i> >)])	
	<ul> <li>A graceful restart failed. End-Of-RIB cannot be received from the peer router. All the paths learned from the relevant peer will be deleted.</li> <li>       <br <="" td=""/></br></li></ul>		

#: Note that, the entire AS path might not be output (only part of the AS sequential number is output) because there is a limit to the number of characters that can be output in a system message.

## 7.6 BGP4+

The following table shows the system messages of the BGP4+ message type.

#### Table 7-6: System messages of the BGP4+ message type

Message ID	Event level	Message text	
	Description and action		
05080000	85	A peer connection has been established. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was established.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li>  description&gt;: Description name of the connection target peer</li> <li>[Action]</li> <li>None.</li> </ul>		
05080001	85	A peer connection closed because of a change in the interface state. (peer = < <i>bgp</i> name>[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected due to a change in the interface state.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><bgr></bgr>       <b< td=""></b<></li></ul>		
05080003	S6	A peer connection closed because the peer configuration was deleted. (peer = < <i>bgp</i> name>[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected due to a change (deletion of the peer information) in the configuration.</li> <li>       <br <="" td=""/></li></ul>		
05080004	S6	A peer connection closed because of a configuration change. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected due to a change in the configuration.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>None.</li> </ul>		
05080005	S6	A peer connection closed because of the execution of 'clear ipv6 bgp' command. (pee = <bgp name="">[ (<description>)])</description></bgp>	
	The connection with the relevant peer was disconnected by executing the clear ipv6 bgp command • <bgp name="">: Connection target peer name • <description>: Description name of the connection target peer [Action] None.</description></bgp>		
05080006	S6	A peer connection has been reestablished in a graceful restart. (peer = <bgp name=""> (<description>)])</description></bgp>	
	The connection with the relevant peer was reestablished. • <i><bgp name=""></bgp></i> : Connection target peer name • <i><description></description></i> : Description name of the connection target peer [Action] None.		

Message ID	Event level	Message text	
	Description and action		
05080007	S6	An End-Of-RIB marker was received. (source = <bgp name="">[ (<description>)])</description></bgp>	
	<ul> <li>End-Of-RIB was received.</li> <li>                   </br></br></li></ul>		
05080008	S6	An End-Of-RIB marker was sent. (destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)])	
		vas sent. e>: Target peer name ion>: Description name of the destination peer	
05080009	S5	A peer connection closed because the number of prefixes received from the peer has exceeded the limit. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected because the the maximum number of learned paths was exceeded.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>1. Check the number of the paths advertised by the relevant peer.</li> <li>2. To reconnect the peer, make sure that the number of paths advertised by the peer is equal to or less than the maximum value, and then enter the clear ipv6 bgp command.</li> </ul>		
05080010	S6	Learning of a route information from receiving routers has finished.	
	Route learning from receiving routers has finished. [Action] None.		
05080011	85	The system has stopped route learning from at least one receive router and started route advertisement.	
	Route learning from some of the receiving routers will be stopped, and route advertisement will start. [Action] None.		
05080100	S4	A connection to a peer failed because the local address was unusable. (peer = <i>hame&gt;</i> [ (< <i>description&gt;</i> )], address = < <i>ipv6 address&gt;</i> )	
	<ul> <li>An attempt to establish a connection failed because the address used for establishing a connection with the relevant peer could not be used.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li><ip><ip><ip><ip><ip><ip><ip><ip><ip><i< td=""></i<></ip></ip></ip></ip></ip></ip></ip></ip></ip></li></ul>		

Message ID	Event level	Message text	
	Description and action		
05080101	\$3	The peer remains in idle state because the interface to be used to the peer connection was not found. (peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )])	
	<ul> <li>The peer remains in an idle state because the interface connected to the relevant peer cannot be found</li> <li>                </br> <li>The peer remains in an idle state because the interface connected to the relevant peer cannot be found</li> <li>                  </li></br> </li></ul> <li>The peer remains in an idle state because the interface connected to the relevant peer cannot be found</li> <li>    &lt;</li>		
05080102	S3	The peer remains in idle state because the local address to be used to the peer connection was not on the same network as the peer. (peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], address = <i><ipv6 address=""></ipv6></i> )	
	<ul> <li>The peer remains in an idle state because the address used for connecting with the relevant peer does not exist in the same network.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li><ip><ip>description&gt;: Address</ip></ip></li> <li>Address</li> <li>Address</li> <li>Address</li> <li>Address</li> <li>Check the configuration.</li> </ul>		
05080103	\$3	The peer remains in idle state because the interface for the local address to be used to the peer connection was not found. (peer = <bgp name="">[ (<description>)], address = <ipv6 address="">)</ipv6></description></bgp>	
	<ul> <li>The peer remains in an idle state because the interface for the device used for connecting with the relevant peer cannot be found.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><bgr></bgr>       <b< td=""></b<></li></ul>		
05080200	S4	A connection request was ignored because an acceptance of a connection failed. (socket = < <i>socket</i> >, error = < <i>error string</i> >)	
	<ul> <li>The connection request was ignored because acceptance of the connection failed.</li> <li><socket>: Socket descriptor number</socket></li> <li><error string="">: Error cause</error></li> <li>[Action]</li> <li>If this error occurs frequently, check the cause of the error.</li> </ul>		
05080201	S4	The connection will be closed because a fetching of the link-local address to be use to connection failed. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)], error = < <i>error string</i> ?	
	<ul> <li>The connection will be disconnected because extraction of the link-local address used for establishing a connection failed.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li><error string="">: Error cause</error></li> <li>[Action]</li> <li>If this error occurs frequently, check the unicast routing program (BGP4+) in the peer.</li> </ul>		

Message ID	Event level	Message text	
	Description and action		
05080202	S4	The connection will be closed because a fetching of the address to be used to connection failed.	
	connection faile [Action]	will be disconnected because extraction of the address used for establishing a ed. urs frequently, check the unicast routing program (BGP4+) in the peer.	
05080203	\$5	A connection request was ignored because no MD5 digest was attached to the received TCP segment. (source IPv6 + TCP port = <source ipv6=""/> + <tcp no.="" port="">) destination IPv6 + TCP port = <destination ipv6=""> + <tcp no.="" port="">)</tcp></destination></tcp>	
	<ul> <li>The connection request was ignored because the MD5 authentication option is not set for the received TCP segment. This system message is output according to the following conditions:</li> <li>1. The messages from the first to the 16th event are output.</li> <li>2. After 17 times from the beginning of the event occurrence, this message is output once every 256 times the event occurs.</li> <li>3. If an event occurs three minutes or more after the last event occurred, this message is output depending on 1 and 2 above.</li> <li>Note that the above numbers indicate the total number of times the following messages are output. Message type: BGP4+ Message ID: 05080203</li> <li>Message type: BGP4+ Message ID: 05080204</li> <li><source ipv6=""/>: Source IPv6 address</li> <li>&lt;<i>TCP port no.</i>&gt;: TCP port number</li> <li><destination ipv6="">: Destination IPv6 address</destination></li> <li>[Action]</li> <li>Check whether the MD5 authentication is set in BGP4+ of the remote device.</li> <li>If it is not set, set the MD5 authentication so that it matches.</li> <li>If the setting matches, check whether TCP segments are sent from a peer other than the source BGP4+ peer.</li> </ul>		
05080204	<ul> <li>segment is inva</li> <li>The messag</li> <li>After 17 tin times the ev</li> <li>If an event of depending of</li> <li>Note that the ab</li> <li>Message type:</li> <li><source ipv<="" li=""/> <li><tcp li="" port<=""> <li><destination< li=""> <li>[Action]</li> <li>Check if the</li> <li>If the MD5</li> </destination<></li></tcp></li></li></ul>	<ul> <li>beccurs three minutes or more after the last event occurred, this message is output on 1 and 2 above.</li> <li>beve numbers indicate the total number of times the following messages are output.</li> <li>BGP4+ Message ID: 05080203</li> <li>BGP4+ Message ID: 05080204</li> <li>best in the state of the state of</li></ul>	

Message ID	Event level	Message text	
	Description and action		
05080300	S4	A peer connection closed because a message could not be sent to the peer owing to the lack of space in socket buffer. (send request message length = < <i>length</i> > bytes, destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)], error = < <i>error string</i> >)	
	<ul> <li>An attempt to send a message to the relevant peer failed because the socket buffer became full. The connection with the relevant peer was disconnected.</li> <li><length>: Send request message length</length></li> <li><le>description&gt;: Target peer name</le></li> <li><le>description&gt;: Description name of the destination peer</le></li> <li><error string="">: Error cause</error></li> <li>[Action]</li> <li>If this error occurs frequently, check the cause of the error.</li> </ul>		
05080301	S4	A peer connection closed because a message could not be sent to the peer. (message length = < <i>length&gt;</i> bytes, destination peer = < <i>bgp name&gt;</i> [ (< <i>description&gt;</i> )], error < <i>error string&gt;</i> )	
	<ul> <li>The connection with the relevant peer was disconnected because an attempt to send a message to the that peer failed.</li> <li><length>: Send request message length</length></li> <li><le>description&gt;: Target peer name</le></li> <li><le>description&gt;: Description name of the destination peer</le></li> <li><le>error string&gt;: Error cause</le></li> <li>[Action]</li> <li>If this error occurs frequently, check the cause of the error.</li> </ul>		
05080302	85	A message could not be sent to a peer because the connection closed. (send request < <i>length&gt;</i> bytes, destination peer = < <i>bgp name&gt;</i> [ (< <i>description&gt;</i> )])	
	<ul> <li>An attempt to send the message to the relevant peer failed because the connection was disconnected.</li> <li><length>: Send request message length</length></li> <li><le><le>description&gt;: Target peer name</le></le></li> <li><le><le>description&gt;: Description name of the destination peer</le></le></li> <li>[Action]</li> <li>If this error occurs frequently, check the cause of the disconnection.</li> </ul>		
05080303	S4	A peer connection closed because the system had repeatedly failed in sending a message to the peer. (destination peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], error = <i><error string=""></error></i> )	
	<ul> <li>The connection with the relevant peer was disconnected because the system had repeatedly failed in sending a message to the peer.</li> <li>  <li>  <li>  <li>  <li>  <li>  </li> <li>  </br></li> <li>  </li> <li>  </li></li></li></li> </li> <li>  </li> </li> <li>  </li></ul>		

Message ID	Event level	Message text	
	Description and action		
05080304	S4	A peer connection closed because the system failed in sending a message to the peer (send request = < <i>length1</i> > bytes, sent data = < <i>length2</i> > bytes, destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)], error = < <i>error string</i> >)	
	<ul> <li>The connection with the relevant peer was disconnected because the system failed in sending a message to the peer.</li> <li>&lt;<i>length1</i>&gt;: Send request data length</li> <li>&lt;<i>length2</i>&gt;: Sent data length</li> <li>&lt;<i>length2</i>&gt;: Target peer name</li> <li>&lt;<i>description</i>&gt;: Description name of the destination peer</li> <li>&lt;<i>error string</i>&gt;: Error cause</li> <li>[Action]</li> <li>If this error occurs frequently, check the cause of the error.</li> </ul>		
05080305	85	A message was not sent to a peer because the peer connection closed. (send request < <i>length1</i> > bytes, sent data = < <i>length2</i> > bytes, destination peer = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>An attempt to send the message to the relevant peer failed because the connection was disconnected.</li> <li><length1>: Send request data length</length1></li> <li><length2>: Sent data length</length2></li> <li><bgp name="">: Target peer name</bgp></li> <li><description>: Description name of the destination peer</description></li> <li>[Action]</li> <li>If this error occurs frequently, check the cause of the disconnection.</li> </ul>		
05080306	\$5	A peer connection closed because the system had repeatedly failed in sending a message to the peer. (destination peer =  clength1>, remaining = <length2>, error = <error string="">)</error></length2>	
	The connection with the relevant peer was disconnected because the system had repeatedly failed in sending a message to the peer. <ul> <li>       <br <="" td=""/></br></li></ul>		
05080307	S4	A peer connection closed because the system had repeatedly failed in sending KEEPALIVE messages to the peer. (destination peer = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], error = <i><error string=""></error></i> )	
	The connection with the relevant peer was disconnected because the system had repeatedly failed in sending KEEPALIVE messages to the peer. <ul> <li>       <br <="" td=""/></br></li></ul>		

Message ID	Event level	Message text	
	Description and action		
05080308	S5	A NOTIFICATION message was sent to a peer. (destination peer = <bgp name="">[ (<description>)], code = <code> (<code string="">)[, sub code = <sub code=""> (<sub code string&gt;)][, value = <value>][, data = <data>])</data></value></sub </sub></code></code></description></bgp>	
	<ul> <li><bgp li="" name:<=""> <li><bgp li="" name:<=""> <li><description< li=""> <li><code> (<col/> <li><sub code=""></sub></li> <li>Error sub</li> <li>Error code 4</li> <li>Error code 5</li> <li>Error code 6</li> <li>invalid: <unknown: <<="" li=""> <li><data>: Inf</data></li> <li>[Action]</li> <li>Check the n</li> </unknown:></li></code></li></description<></li></bgp></li></bgp></li></ul>	ON message was sent to the relevant peer. >: Target peer name n>: Description name of the destination peer code string>): Error code (( <i>sub code string</i> >): Error subcode ((Message Header Error) code 1 (lost connection synchronization) code 2 (bad length) code 3 (bad message type) 2 (OPEN Message Error) code 0 (unsupported version) code 2 (bad AS number) code 3 (bad BGP ID) code 4 (unsupported version) code 5 (bad AS number) code 6 (unacceptable holdtime) 6 (UPDATE Message Error) code 1 (invalid attribute list) code 2 (unknown well known attribute) code 3 (missing well known attribute) code 4 (attribute length) code 5 (bad ORIGIN attribute) code 6 (bad ORIGIN attribute) code 9 (error with optional attribute) code 10 (bad address or prefix field) code 11 (AS path attribute problem) 4 (Hold Timer Expired Error) 5 (Crease) <i>icode string</i> > for invalid < <i>code</i> > <i>isubcode string</i> > for invalid < <i>code</i> > <i></i>	
05080400	S5 The connection	A peer connection closed because a header marker in the received message was invalid. (peer = < <i>bgp name</i> > [ (< <i>description</i> >)]) with the relevant peer was disconnected because a header marker in the received	
		valid. >: Source peer name n>: Description name of the source peer	
	Check the unicast routing program (BGP4+) in the peer.		

Message ID	Event level	Message text
		Description and action
05080401	\$5	A NOTIFICATION message from a peer was truncated. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)], length = < <i>length</i> >)
	The length of the NOTIFICATION message received from the relevant peer was invalid. <ul> <li><bgp name="">: Source peer name</bgp></li> <li><bgr></bgr>description&gt;: Description name of the source peer</li> <li><length>: Received data length</length></li> </ul> [Action] Check the unicast routing program (BGP4+) in the peer.	
05080402	85	A peer connection closed because there was an error in an UPDATE message from the peer. (error = <code> (<error string="">), peer = <bgp name="">[ (<description>)], <length> bytes error data, first 5 bytes = <error data="">)</error></length></description></bgp></error></code>
	The connection with the relevant peer was disconnected because there was an error in an UPDATE message from the peer. • < <i>code</i> > (< <i>error string</i> >): Error cause • < <i>bgp name</i> >: Source peer name • < <i>description</i> >: Description name of the source peer • < <i>length</i> >: Error data length • < <i>error data</i> >: First 5 bytes of error data [Action] Check the unicast routing program (BGP4+) in the peer.	
05080403	S5       A peer connection closed because the system failed in receiving a message from the peer. (source = bgp name>[ ( <description>)], error = <error string="">)         The connection with the relevant peer was disconnected because the system failed in receiving a message from the peer.       •         •        bgp name&gt;: Source peer name       •         •        cerror string&gt;: Description name of the source peer         •       <error string="">: Error cause         [Action]       If this error occurs frequently, check the cause of the error.</error></error></description>	
05080404	S5       A peer connection closed because the system failed in receiving a message from the peer owing to an unexpected EOF. (source = <bgp name="">[ (<description>)])         The connection with the relevant peer was disconnected because the system failed in receiving a message from the peer owing to an unexpected EOF.         •       <bgp name="">: Source peer name         •       <bgp name="">: Description name of the source peer         [Action]       If this error occurs frequently, check the cause of the disconnection.</bgp></bgp></description></bgp>	
05080405	received from th <pre>  </pre>	A peer connection closed because of an invalid message length. (source = <bgp name&gt;[ (<description>)], message type = <message type="">, length = <length>)with the relevant peer was disconnected because an invalid-length message was hat peer.&gt;: Source peer name n&gt;: Description name of the source peer ype&gt;: Received message type DPEN, UPDATE, NOTIFICATION, KEEPALIVE Received data lengthast routing program (BGP4+) in the peer.</length></message></description></bgp 

Message ID	Event level	Message text		
		Description and action		
05080406	85	A peer connection closed because of a reception of an unexpected message type. (source = <bgp name="">[ (<description>)], received type = <message type1="">, expected type = <message type2="">[ or <message 2="" type="">])</message></message></message></description></bgp>		
	<ul> <li>The connection with the relevant peer was disconnected because a message whose message type is inappropriate for the current state was received from that peer.</li> <li>              <b< td=""></b<></br></br></br></br></li></ul>			
05080407	\$5	A peer connection closed because an OPEN message from the peer was too short. (source = < <i>bgp name</i> >[ (< <i>description</i> >)], BGP version in message = < <i>version</i> >, message length = < <i>length</i> > octets)		
	The connection with the relevant peer was disconnected because an OPEN message from the peer was too short. •          			
05080408	85	A peer connection closed because an OPEN message from a peer had an unsupported BGP version. (version = <version>, peer = <bgp name="">[ (<description>)])</description></bgp></version>		
	<ul> <li>The connection with the relevant peer was disconnected because an OPEN message that has an unsupported BGP version number was received from that peer.</li> <li><version>: BGP version number of received messages</version></li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li>[Action]</li> <li>Make sure that the peer supports BGP4+.</li> </ul>			
05080409	85	A peer connection closed because the holdtime in an OPEN message from the peer was too small. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], holdtime = <i><holdtime></holdtime></i> )		
	The connection with the relevant peer was disconnected because an OPEN message whose hold time is less than three seconds was received from that peer. • <i><bgp name=""></bgp></i> : Source peer name • <i><description></description></i> : Description name of the source peer • <i><holdtime></holdtime></i> : Hold time in the received message [Action] Check the peer configuration.			

Message ID	Event level	Message text	
	Description and action		
05080410	85	A peer connection closed because the BGP4+ identifier in an OPEN message from the peer was invalid. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], invalid ID = <i><route id=""></route></i> )	
	message from th <ul> <li><bgp li="" name?<=""> <li><description< li=""> <li><router id=""></router></li> </description<></li></bgp></li></ul> [Action]	with the relevant peer was disconnected because the BGP4+ identifier in an OPEN he peer was invalid. >: Source peer name n>: Description name of the source peer : BGP4+ identifier in the received message st routing program (BGP4+) in the peer.	
05080411	S5	A peer connection closed because an OPEN message from the peer had an invalid option code. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], option code = <i><option></option></i> )	
	an invalid option • <bgp name?<br="">• <description • <option>: C [Action]</option></description </bgp>	with the relevant peer was disconnected because an OPEN message from the peer had n code. >: Source peer name n>: Description name of the source peer Dption code in the received message st routing program (BGP4+) in the peer.	
05080412	\$3	A peer connection closed because an OPEN message from the peer had an AS number different from the configured one. (source = $\langle bgp \ name \rangle$ [( $\langle description \rangle$ )], message AS. = $\langle asl \rangle$ , configured AS. = $\langle as2 \rangle$ )	
	<ul> <li>The connection with the relevant peer was disconnected because an OPEN message from the peer had an AS number different from the configured one.</li> <li>         </br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></li></ul>		
05080413	\$5	A peer connection closed because the BGP version in a KEEPALIVE message from the peer was not supported by the system. (source = <i><bgp i="" name<="">&gt;[ (<i><description< i="">&gt;) source version = <i><version1< i="">&gt;, this system's version = <i><version2< i="">&gt;)</version2<></i></version1<></i></description<></i></bgp></i>	
	<ul> <li>The connection with the relevant peer was disconnected because a KEEPALIVE message that has a mismatched BGP version number was received from that peer.</li> <li>                  <br< td=""></br<></br></br></li></ul>		
05080414	\$3	A peer connection closed because the peer sending an OPEN message was not configured in the system. (source = <i><bgp name=""></bgp></i> )	
	not configured i	>: Source peer name	

Message ID	Event level	Message text	
	Description and action		
05080415	85	A peer connection closed because an OPEN message was sent from the peer in an unexpected state. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], state = <i><state></state></i> )	
	The connection with the relevant peer was disconnected because an OPEN message was received from that peer during the Idle, OpenConfirm, or Established state. •    		
05080416		has become unstable. If this error occurs frequently, check the cause of the instability	
05080416	S5	A peer connection closed because of an unsupported BGP version in an OPEN message. (received version = <version>, source = <bgp name="">[ (<description>)]</description></bgp></version>	
	The connection with the relevant peer was disconnected because an OPEN message that has an unsupported BGP version number was received from that peer. <ul> <li><version>: BGP version number of received messages</version></li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> </ul> [Action] Check the BGP version supported by the peer.		
05080417	85	An OPEN message was ignored because of an unexpected extra data. (source = <bg name="">[ (<description>)])</description></bg>	
	<ul> <li>The OPEN message was ignored because unnecessary data is appended to the message from the peer.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		
05080418	\$3	The configured Capabilities for the system did not match with the received Capabilities from a peer. Only a set of matched capabilities has been enabled for the peer. (source = the system control of the system cont	
	<ul> <li>The capability settings of the Device do not match with the capability received from the peer. Only the matched capability is enabled.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li>[Action]</li> <li>Check the configuration.</li> </ul>		
05080419	\$5	A peer connection closed because the message length in a message from the peer wa invalid. (source = < <i>bgp name</i> >[ (< <i>description</i> >)], length in header = < <i>length</i> >)	
	the peer was in <ul> <li>  description</li> <li><length>:::</length></li> </ul>	with the relevant peer was disconnected because the message length in a message fror valid. >: Source peer name m>: Description name of the source peer Message length of the received message header ast routing program (BGP4+) in the peer.	

Message ID	Event level	Message text	
	Description and action		
05080420	85	A peer connection closed because a message type in a message from the peer was invalid. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], type = <i><type></type></i> )	
	<ul> <li>The connection with the relevant peer was disconnected because a message type in a message from the peer was invalid.</li> <li>                  <b< td=""></b<></br></br></li></ul>		
05080421	S5	A peer connection closed because an OPEN message was received from the peer in the Established state. (source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected because an OPEN message was received from the peer in the ESTABLISHEDstate.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer [Action]</description></li> <li>The connection has become unstable. If this error occurs frequently, check the cause of the instability.</li> </ul>		
05080422	85	A peer connection closed because of a too short UPDATE message from the peer. (source = <bgp name="">[ (<description>)], message length = <length>)</length></description></bgp>	
	<ul> <li>The connection with the relevant peer was disconnected because of a too short UPDATE message from the peer.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li><length>: Received data length</length></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		
05080423	85	A peer connection closed because an unreachable prefix length of an UPDATE message from the peer exceeded the message length. (prefix length = < <i>length1</i> >, message length = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected because an unreachable prefix length of an UPDATE message from the peer exceeded the message length.</li> <li><length1>: Prefix length of unreachable routing information in the received message</length1></li> <li><length2>: Received data length</length2></li> <li><le>description&gt;: Description name of the source peer</le></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		
05080424	85	A peer connection closed because an unreachable prefix length of an UPDATE message from the peer was too long. (prefix length = < <i>length</i> >, source = < <i>bgp</i> name>[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected because an unreachable prefix length of an UPDATE message from the peer was too long.</li> <li><length>: Prefix length in received messages</length></li> <li><length>: Source peer name</length></li> <li><lenstriation>: Description name of the source peer</lenstriation></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		

Message ID	Event level	Message text	
	Description and action		
05080425	S5	A peer connection closed because a prefix length in an UPDATE message from the peer exceeded the remaining unreachable prefix data. (received prefix length = < <i>length1</i> >, actual length = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	routing inform routing inform • <length1> • <length2> • <bgp name<br="">• <description [Action]</description </bgp></length2></length1>	n with the relevant peer was disconnected because the prefix length of unreachable ation of the UPDATE message from that peer exceeds the prefix data of unreachable ation. : Prefix length in received messages : Entity data length e>: Source peer name on>: Description name of the source peer east routing program (BGP4+) in the peer.	
05080426	\$5	An UPDATE message was ignored because a path attribute length of the UPDATE message from a peer was 0, but there was a data in the path attribute. (source = < <i>bgp</i> name>[ (< <i>description</i> >)], data length = < <i>length</i> > bytes)	
	The attribute length of the UPDATE message from the relevant peer is 0 even though actual data exists. The UPDATE message was ignored. • <bgp name="">: Source peer name • <description>: Description name of the source peer • <length>: Entity data length [Action] Check the unicast routing program (BGP4+) in the peer.</length></description></bgp>		
05080427	\$5	A peer connection closed because a path attribute length of an UPDATE message from the peer exceeded the actual path attribute length. (received attribute lengths = < <i>length1</i> >, actual length = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	The connection with the relevant peer was disconnected because a path attribute length of an UPDATE message from the peer exceeded the actual path attribute length. • <i><length1< i="">&gt;: Path attribute length of the received message • <i><length2< i="">&gt;: Entity data length • <i><bgp i="" name<="">&gt;: Source peer name • <i><description< i="">&gt;: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description<></i></bgp></i></length2<></i></length1<></i>		
05080428	S5	A peer connection closed because there was no nexthop attribute in an UPDATE message from the peer. (source = bgp name>[ ( <description>)])</description>	
	<ul> <li>The connection with the relevant peer was disconnected because there was no nexthop attribute in an UPDATE message from the peer.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		
05080429	\$5	The LOCALPREF attribute in an UPDATE message was ignored because the UPDATE message was sent from an external peer. (source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	LOCALPREF • bgp name • <description [Action]</description 	REF attribute is included in the UPDATE message from the external peer. The attribute was ignored. e>: Source peer name on>: Description name of the source peer east routing program (BGP4+) in the peer.	

Message ID	Event level	Message text	
	Description and action		
05080430	S5	A peer connection closed because there was no LOCALPREF attribute in a received UPDATE message from the internal peer. (source = < <i>bgp name</i> >[ (< <i>description</i> >)]	
	The connection with the relevant peer was disconnected because there was no LOCALPREF attribute in a received UPDATE message from the internal peer. • <i><bgp name=""></bgp></i> : Source peer name • <i><description></description></i> : Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.		
05080431	85	The UPDATE message was ignored because a received UPDATE message from a peer had no reachable prefixes in a path attribute. (source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	attributes but do • <bgp name<="" td=""><td>essage was ignored because the UPDATE message from the relevant peer has path bes not have the corresponding routing information. &gt;: Source peer name</td></bgp>	essage was ignored because the UPDATE message from the relevant peer has path bes not have the corresponding routing information. >: Source peer name	
	[Action]	<i>n</i> >: Description name of the source peer st routing program (BGP4+) in the peer.	
05080432	S5	A peer connection closed because an UPDATE message from the peer in AS $\langle asl \rangle$ had an AS-path with the first-hop AS $\langle as2 \rangle$ . (peer = $\langle bgp name \rangle$ [( $\langle description \rangle$ )]	
	The connection with the relevant peer was disconnected because an UPDATE message from the peer in AS < <i>as1&gt;</i> had an AS-path with the first-hop AS < <i>as2&gt;</i> . • < <i>as1&gt;</i> : AS number of the source peer • < <i>as2&gt;</i> : Next-hop AS number in the received message • < <i>bgp name&gt;</i> : Source peer name • < <i>description&gt;</i> : Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.		
05080433	S5	A routing information in the NLRI field as described in RFC 1771 was ignored. (source = <bgp name="">[ (<description>)])</description></bgp>	
	<ul> <li>Routing information in a format that complies with RFC 1771 was ignored.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		
05080434	S5	A peer connection closed because of an invalid MP_REACH_NLRI attribute length in an UPDATE message. (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	attribute length • <length>: R • <bgp name:<br="">• <description [Action]</description </bgp></length>	with the relevant peer was disconnected because of an invalid MP_REACH_NLRI in an UPDATE message. Received MP_REACH_NLRI attribute length >: Source peer name n>: Description name of the source peer st routing program (BGP4+) in the peer.	

Message ID	Event level	Message text
		Description and action
05080435	85	A peer connection closed because of an invalid MP_REACH_NLRI attribute length in an UPDATE message from the peer (no nexthop length field). (attribute length = <length>, source =  bgp name&gt;[ (<description>)])</description></length>
	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. The length of the next-hop attribute has not been configured. The connection with the relevant peer was disconnected. • <length>: Received MP_REACH_NLRI attribute length • <legp name="">: Source peer name • <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></legp></length>	
05080436	85	A peer connection closed because of an invalid nexthop length in the MP_REACH_NLRI attribute in a UPDATE message from the peer. (nexthop length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])
	The connection with the relevant peer was disconnected because of an invalid nexthop length in the MP_REACH_NLRI attribute in a UPDATE message from the peer. <ul> <li><length>: Received MP_REACH_NLRI attribute length</length></li> <li><length>: Source peer name</length></li> <li>: Description name of the source peer</li> </ul> [Action] Check the unicast routing program (BGP4+) in the peer.	
05080437	85	A peer connection closed because of an invalid MP_REACH_NLRI attribute length in an UPDATE message from the peer (no reserved field attribute length). (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])
	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. The length of the reserved field attribute has not been configured. The connection with the relevant peer was disconnected. • <length>: Received MP_REACH_NLRI attribute length • <length>: Source peer name • <description>: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.</description></length></length>	
05080438	85	A peer connection closed because of an invalid MP_REACH_NLRI attribute lengt in an UPDATE message from the peer (no SNPA length). (attribute length = <length>, source =  bgp name&gt;[ (<description>)])</description></length>
	The length of the MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer is invalid. The length of the SNPA attribute has not been configured. The connection with the relevant peer was disconnected. • < <i>length</i> >: Received MP_REACH_NLRI attribute length • < <i>bgp name</i> >: Source peer name • < <i>description</i> >: Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.	

Message ID	Event level	Message text		
		Description and action		
05080439	\$5	A peer connection closed because of an invalid MP_REACH_NLRI attribute in an UPDATE message from the peer (no SNPA). (attribute length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])		
	is invalid. SNP/ • <length>: I • <bgp name<br="">• <descriptio [Action]</descriptio </bgp></length>	e MP_REACH_NLRI attribute for the UPDATE message received from the relevant peer A has not been configured. The connection with the relevant peer was disconnected. Received MP_REACH_NLRI attribute length >: Source peer name n>: Description name of the source peer		
	Check the unica	ast routing program (BGP4+) in the peer.		
05080440	85	A peer connection closed because a multi-protocol prefix length in an UPDATE message from a peer exceeded the remaining prefix data. (prefix length = < <i>length1</i> >, remaining data length = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])		
	UPDATE messag • <length1>: • <length2>: • <bgp name<br="">• <descriptio [Action]</descriptio </bgp></length2></length1>	with the relevant peer was disconnected because a multi-protocol prefix length in an ge from a peer exceeded the remaining prefix data. Prefix length in received messages Entity data length >: Source peer name n>: Description name of the source peer ast routing program (BGP4+) in the peer.		
05080441	85	A peer connection closed because a multi-protocol prefix length in an UPDATE message from a peer was too long. (prefix length = < <i>length</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])		
	The connection with the relevant peer was disconnected because the prefix length of the route for the UPDATE message from that peer exceeds the maximum length. <ul> <li><length>: Received data length</length></li> <li><length>: Source peer name</length></li> <li><lenstriantiantiantiantiantiantiantiantiantiant< td=""></lenstriantiantiantiantiantiantiantiantiantiant<></li></ul>			
05080442	85	A peer connection closed because a nexthop address length was invalid. (source = < <i>bgp name</i> >[ (< <i>description</i> >)], length = < <i>length</i> >)		
	<ul> <li>The connection with the relevant peer was disconnected because the next-hop address length of the route from that peer is invalid.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li><length>: Next-hop address length</length></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>			
05080443	\$5	A route information was ignored because there was no nexthop address on the same network as the peer. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], nexthop = <i><ipv6 address=""></ipv6></i> )		
	<ul> <li>A route information was ignored because there was no nexthop address on the same network as the peer.</li> <li><bgp name="">: Source peer name</bgp></li> <li><description>: Description name of the source peer</description></li> <li><ipv6 address="">: Next-hop address</ipv6></li> </ul>			
		ast routing program (BGP4+) in the peer.		

Message ID	Event level	Message text	
	Description and action		
05080444	85	A peer connection closed because the received route information from a peer was not an IPv6 unicast address. (source = < <i>bgp name</i> >[ (< <i>description</i> >)], family/sub family = < <i>family</i> >/< <i>sub family</i> >)	
	The connection with the relevant peer was disconnected because the received route information from a peer was not an IPv6 unicast address. <ul> <li>       <br <="" td=""/></li></ul>		
05080445	\$5	A peer connection closed because of an invalid MP_UNREACH_NLRI attribute length in an Update message from the peer (no address family). (attribute length = < <i>length&gt;</i> , source = < <i>bgp name&gt;</i> [ (< <i>description&gt;</i> )])	
	The length of the MP_UNREACH_NLRI attribute for the UPDATE message from the relevant peer is invalid. No address family exists. The connection with the relevant peer was disconnected. • <i><length></length></i> : Received MP_UNREACH_NLRI attribute length • <i><bgp name=""></bgp></i> : Source peer name • <i><description></description></i> : Description name of the source peer [Action] Check the unicast routing program (BGP4+) in the peer.		
05080446	85	A peer connection closed because a prefix length in an UPDATE message from a peer exceeded the remaining unreachable multi-protocol prefix data. (prefix length = < <i>length1</i> >, remaining data = < <i>length2</i> >, source = < <i>bgp name</i> >[ (< <i>description</i> >)])	
	<ul> <li>The connection with the relevant peer was disconnected because a prefix length in an UPDATE message from a peer exceeded the remaining unreachable multi-protocol prefix data.</li> <li><length>: Next-hop address length</length></li> <li><le><le>description&gt;: Source peer name</le></le></li> <li><le><le>description&gt;: Description name of the source peer</le></le></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		
05080447	85	A peer connection closed because an unreachable multi-protocol prefix length in an UPDATE message from a peer was too long. (prefix length = <i><length></length></i> , source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )])	
	<ul> <li>The connection with the relevant peer was disconnected because the prefix length of unreachable routing information of the UPDATE message from that peer exceeds 128 bits.</li> <li><i>elength&gt;:</i> Prefix length in received messages</li> <li><i>elength&gt;:</i> Source peer name</li> <li><i>elescription</i></li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		

Message ID	Event level	Message text	
	Description and action		
05080448	85	The route information was ignored because an unreachable muti-protocol prefix was not an IPv6 unicast address. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], family/sub family = <i><family>/<sub family=""></sub></family></i> )	
	The route information was ignored because an unreachable multi-protocol prefix was not an IPv6 unicast address. • <i><bgp name=""></bgp></i> : Source peer name • <i><description></description></i> : Description name of the source peer • <i><family></family></i> : Address family • <i><sub family=""></sub></i> : Sub address family [Action] Check the unicast routing program (BGP4+) in the peer.		
05080449	85	A peer connection closed because a NOTIFICATION message was received from a peer. (source = code > [ ( <description>)], code = <code> (<code string="">)[, sub code = <sub code=""> (<sub code="" string="">)][, value = <value>][, data = <data>])</data></value></sub></sub></code></code></description>	
	received from a <pre>  </pre>	<ul> <li>Source peer name</li> <li>n&gt;: Description name of the source peer</li> <li>code string&gt;): Error code</li> <li>(<sub code="" string="">): Error subcode</sub></li> <li>1 (Message Header Error)</li> <li>bcode 1 (lost connection synchronization)</li> <li>bcode 2 (bad length)</li> <li>bcode 3 (bad message type)</li> <li>2 (OPEN Message Error)</li> <li>bcode 0 (unspecified error)</li> <li>bcode 1 (unsupported version)</li> <li>bcode 2 (bad AS number)</li> <li>bcode 3 (bad BGP ID)</li> <li>bcode 4 (unsupported optional parameter)</li> <li>bcode 4 (unsupported optional parameter)</li> <li>bcode 7 (unsupported capability)</li> <li>3 (UPDATE Message Error)</li> <li>bcode 2 (unknown well known attribute)</li> <li>bcode 3 (missing well known attribute)</li> <li>bcode 4 (attribute flags error)</li> <li>bcode 5 (bad attribute length)</li> <li>bcode 6 (bad ORIGIN attribute)</li> <li>bcode 7 (AS loop detected)</li> <li>bcode 8 (invalid NEXT_HOP)</li> <li>bcode 9 (error with optional attribute)</li> <li>bcode 9 (error with optional attribute)</li> <li>bcode 9 (error with optional attribute)</li> <li>bcode 9 (error with optional error)</li> <li>bcode 9 (error with optional error)</li> <li>bcode 10 (bad address or prefix field)</li> <li>bcode 11 (AS path attribute problem)</li> <li>4 (Hold Timer Expired Error)</li> </ul>	

Message ID	Event level	Message text		
		Description and action		
05080450	85	All routes learned from a peer will be deleted because the peer in a graceful restart could not retain the forwarding routes. (peer =< <i>bgp name</i> >)		
	<ul> <li>All routes learned from a peer will be deleted because the peer in a graceful restart could not retain the forwarding routes.</li> <li><a href="https://www.commentscore.com"></a></li> <li><a href="https://www.commentscore.com">www.commentscore.com</a></li> <li><a href="https://www.commentscore.com">www.commentscore.com</a></li> <li><a href="https://www.commentscore.com">www.commentscore.com</a></li> <li><a href="https://www.commentscore.com">www.commentscore.com</a></li> <li><a href="https://www.commentscore.com">www.commentscore.com</a></li> </ul>			
05080451	85	A graceful restart was failed because a peer connection was not reestablished within 'restart-time'. All routes learned from the peer will be deleted. (peer = < <i>bgp name</i> >[ (< <i>description</i> >)])		
	<ul> <li>A graceful restart failed. A connection to the peer router cannot be established within the restart-time specified by the peer router. All the paths learned from the relevant peer will be deleted.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><bgc>description&gt;: Description name of the connection target peer</bgc></li> <li>[Action]</li> <li>Check if a communication can be established with the peer router.</li> <li>Check if BGP4+ is running on the peer router.</li> <li>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.</li> </ul>			
05080452	85	A graceful restart was failed because no End-Of-RIB marker received from a restarting router. All routes learned from the peer will be deleted. (peer = < <i>bgp</i> name>[ (< <i>description</i> >)])		
	<ul> <li>A graceful restart failed. End-Of-RIB cannot be received from the peer router. All the paths learned from the relevant peer will be deleted.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>1. Check if BGP4+ is running on the relevant peer router.</li> <li>2. If it is running, increase the stalepath-time value.</li> </ul>			
05080453	S4	The number of prefixes received from a peer exceeded the threshold. (source = < <i>bgp</i> name>[ (< <i>description</i> >)], routes from peer = < <i>routes1</i> >, threshold routes from peer = < <i>routes2</i> >)		
	<ul> <li>The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the threshold.</li> <li><bgp name="">: Source peer name</bgp></li> <li><bgc routes1="">: Description name of the source peer</bgc></li> <li><routes1>: Number of paths learned from peers</routes1></li> <li><routes2>: Maximum number of paths learned from peers</routes2></li> <li>[Action]</li> <li>If the number of paths learned from the relevant peer increases further , check the number of the paths advertised by the peer.</li> </ul>			

Message ID	Event level	Message text	
	Description and action		
05080454	\$3	The number of prefixes received from a peer exceeded the limit. If a 'warning-only command is not set, the peer connection will be closed. (source = <i><bgp name=""></bgp></i> [ ( <i><description></description></i> )], routes from peer = <i><routes1></routes1></i> , max. routes from peer = <i><routes2></routes2></i>	
	The number of paths (active paths and inactive paths) learned from the relevant peer exceeded the maximum value. If warning-only is not specified in the configuration, disconnect the peer. <ul> <li>       <br <="" td=""/></br></li></ul>		
05080455	85	A peer acting as a receiving router could not retain the forwarding routes. A message sent to the peer might be discarded. (peer = <i><bgp name=""></bgp></i> )	
	<ul> <li>The peer operating as a receiving router cannot save the forwarding routes. Messages that are transferred to the relevant peer might be discarded.</li> <li><a href="https://www.segimum.example.com">https://www.segimum.example.com</a></li> <li><a href="https://www.segimum.example.com">https://wwww.segimum.example.com</a></li> <li><a href="https://www.segimum.example.com">https://wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww</a></li></ul>		
05080456	85	A received path attribute was ignored because an UPDATE message from a peer hat a path attribute with type code 0. (source = < <i>bgp name</i> >[ (< <i>description</i> >)][, AS pate = < <i>as number</i> >: < <i>aspath</i> >])	
	<ul> <li>A received path attribute was ignored because an UPDATE message from a peer had a path attribute with type code 0. This system message is not output again on the same peer for an hour after the previous output.</li> <li>           </br></li></ul>		
05080500	85	A peer connection closed because the holdtime for the peer timed out. (peer = <bg name="">[ (<description>)])</description></bg>	
	<ul> <li>The connection with the relevant peer was disconnected because the holdtime for the peer timed out.</li> <li><bgp name="">: Connection target peer name</bgp></li> <li><description>: Description name of the connection target peer</description></li> <li>[Action]</li> <li>Check the unicast routing program (BGP4+) in the peer.</li> </ul>		
05080501	\$5	A peer connection closed because no OPEN message received from the peer before the expiry of its holdtime. (peer = < <i>bgp name</i> >)	
	message from the state of the s	with the relevant peer was disconnected because the timer for waiting for an OPEN hat peer timed out. >: Connection target peer name ast routing program (BGP4+) in the peer.	

#: Note that, the entire AS path might not be output (only part of the AS sequential number is

output) because there is a limit to the number of characters that can be output in a system message.

### 7.7 UNICAST

The following table shows the system messages of the UNICAST message type.

### Table 7-7: System messages of the UNICAST message type

Message ID	Event level	Message text	
	Description and action		
05010000	S4	The dump collection was canceled because of a lack of 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. [Action] There is not enough memory to execute the command. Review the capacity limit.		
05010100	S4	The number of IPv4 unicast routes on the global network exceeded the warning threshold.	
	[Action]	Pv4 unicast routes on the global network has exceeded the warning threshold value. Putes, make sure that the maximum number of routes is not exceeded.	
05010101	S4	The number of IPv4 unicast routes on a VRF exceeded the warning threshold.	
	The number of IPv4 unicast routes on VRF $\langle vrf id \rangle$ has exceeded the warning threshold value. [Action] When adding routes, make sure that the number of added routes does not exceed the maximum.		
05010102	83	The number of IPv4 unicast routes on the global network exceeded the limit.	
	<ul> <li>The number of IPv4 unicast routes on the global network has exceeded the maximum.</li> <li>[Action]</li> <li>1. Delete unnecessary routes.</li> <li>2. Review the maximum number of routes that was specified in the configuration.</li> </ul>		
05010103	\$3	The number of IPv4 unicast routes on a VRF exceeded the limit.	
	<ul> <li>The number of IPv4 unicast routes on VRF &lt;<i>vrf id&gt;</i> has exceeded the maximum.</li> <li>[Action]</li> <li>1. Delete unnecessary routes.</li> <li>2. Review the maximum number of routes that was specified in the configuration.</li> </ul>		
05010104	S4	The number of IPv6 unicast routes on the global network exceeded the warning threshold.	
	The number of IPv6 unicast routes on the global network has exceeded the warning threshold value. [Action] When adding routes, make sure that the number of added routes does not exceed the maximum.		
05010105	S4	The number of IPv6 unicast routes on a VRF exceeded the warning threshold.	
	[Action]	IPv6 unicast routes on VRF $< vrf id >$ has exceeded the warning threshold value. outes, make sure that the number of added routes does not exceed the maximum.	

Message ID	Event level	Message text
		Description and action
05010106	S3	The number of IPv6 unicast routes on the global network exceeded the limit.
	[Action] 1. Delete unne	Pv6 unicast routes on the global network has exceeded the maximum. cessary routes. maximum number of routes that was specified in the configuration.
05010107	S3	The number of IPv6 unicast routes on a VRF exceeded the limit.
	<ul> <li>The number of IPv6 unicast routes on VRF &lt;<i>vrf id&gt;</i> has exceeded the maximum.</li> <li>[Action]</li> <li>1. Delete unnecessary routes.</li> <li>2. Review the maximum number of routes that was specified in the configuration.</li> </ul>	
05010200	S4	A graceful restart was failed.
	A graceful resta [Action] Check if anothe graceful restart.	rt failed. r system switchover has occurred or the unicast routing program restarted during a

## Chapter

# 8. Multicast Routing

- 8.1 PIM-IPv4
- 8.2 IGMP
- 8.3 PIM-IPv6
- 8.4 MLD
- 8.5 MULTI-IPv4 8.6 MULTI-IPv6
- 8.7 MULTI-INFO

### 8.1 PIM-IPv4

The following table shows the system messages of the PIM-IPv4 message type.

### Table 8-1: System messages of the PIM-IPv4 message type

Message ID	Event level	Message text	
	Description and action		
0f040001	85	A received Bootstrap message was ignored because a unicast route to the BSR was not found. (source = < <i>source address</i> >, BSR address = < <i>ip address</i> >)	
	PIM Bootstrap r • <source add<br=""/> • <ip address<br="">[Action]</ip>	message was ignored because the unicast route to the bootstrap router address in the nessage was not found. <i>dress</i> >: Source IPv4 address >: Bootstrap router address	
	Check whether	the route to the bootstrap router address in the Bootstrap packet exists.	
0f040002	S5	BSR information was cleared because Rendezvous Point advertisements from the Bootstrap router were lost.	
	Bootstrap router information was cleared because advertisements from the Bootstrap router were lost. [Action] Check the reason why advertisements from the Bootstrap router were lost.		
0f040003	S6	BSR address has been changed. (new BSR address = < <i>ip address</i> >)	
	<ul> <li>The Bootstrap router address was updated to &lt;<i>ip address</i>&gt;.</li> <li>&lt;<i>ip address</i>&gt;: Bootstrap router address If the Bootstrap router address is the Device, (this system) is displayed after the IPv4 address.</li> <li>[Action] None.</li> </ul>		
0f040004	85	Deleted a neighbor because no Hello message has been advertised from the neighbor recently. (neighbor = <neighbor address="">, interface = <interface name="">, Generation ID = <generation id="">)</generation></interface></neighbor>	
	during a given in • <neighbor a<br="">• <interface in<br="">• <generation NONE: Gene [Action] 1. If the neighbor borise and</generation </interface></neighbor>	address>: Neighboring router's address name>: Interface name n id>: Generation ID ration ID is not supported poring router stops operation, make sure there is no communication failure between the the neighboring router. p problem, use the show cpu command to check whether the CPU load of the Devic	

Message ID	Event level	Message text
		Description and action
0f040005	85	Deleted a neighbor because a Hello message with holdtime 0 has been advertised from the neighbor. (neighbor = <neighbor address="">, interface = <interface name=""> Generation ID = <generation id="">)</generation></interface></neighbor>
	<ul> <li>Adjacency was deleted because a PIM Hello message whose holdtime value is 0 was received from the neighboring router.</li> <li><neighbor address="">: Neighboring router's address</neighbor></li> <li><interface name="">: Interface name</interface></li> <li><generation id="">: Generation ID NONE: Generation ID is not supported [Action] None.</generation></li> </ul>	
0f040006	S6	Added a neighbor. (neighbor = < <i>neighbor address</i> >, interface = < <i>interface name</i> > Generation ID = < <i>generation id</i> >)
	<ul> <li>A new neighboring router was detected.</li> <li><neighbor address="">: Neighboring router's address</neighbor></li> <li><interface name="">: Interface name</interface></li> <li><generation id="">: Generation ID NONE: Generation ID is not supported</generation></li> <li>[Action] None.</li> </ul>	
0f040008	85	Refreshed a neighbor because of a change of Generation ID. (neighbor = < <i>neighbor</i> <i>address</i> >, interface = < <i>interface name</i> >, old Generation ID = < <i>old generation id</i> > new Generation ID = < <i>new generation id</i> >)
	<ul> <li>The Generation ID of a neighboring router has changed.</li> <li><neighbor address="">: Neighboring router's address</neighbor></li> <li><interface name="">: Interface name</interface></li> <li><old generation="" id="">: Generation ID before the change NONE: The neighboring router is not supported.</old></li> <li><new generation="" id="">: Generation ID after the change NONE: The neighboring router is not supported.</new></li> <li>[Action] None.</li> </ul>	
0f040009	S6	Updated a DR address. (interface = < <i>interface name</i> >, old DR address = < <i>old ip</i> address>, new DR address = < <i>ip address</i> >)
	<ul> <li><interface< li=""> <li><old add<="" ip="" li=""> </old></li></interface<></li></ul>	s was updated to <i><ip address=""></ip></i> on the interface <i><interface name=""></interface></i> . <i>name&gt;</i> : Interface name <i>dress&gt;</i> : Previous DR address <i>s&gt;</i> : DR address

### 8.2 IGMP

The following table shows the system messages of the IGMP message type.

Table 8-2: System messages of the IGMP message type

Message ID	Event level	Message text
	Description and action	
0f030001	S6	Updated a querier address. (interface = <i><interface name=""></interface></i> , new querier = <i><ip< i=""> address&gt;, old querier = <i><old address="" ip=""></old></i>)</ip<></i>
	<ul> <li><interface li="" n<=""> <li><ip address<br="">(this sys</ip></li> <li><old address<="" ip="" li=""> </old></li></interface></li></ul>	<pre>supdated to <ip address=""> on the interface <interface name="">. name&gt;: Interface name &gt;: Querier IPv4 address tem): Displayed if the querier IPv4 address is the Device address. ress&gt;: Previous querier IPv4 address tem): Displayed if the previous querier IPv4 address is the Device address.</interface></ip></pre>

### 8.3 PIM-IPv6

The following table shows the system messages of the PIM-IPv6 message type.

### Table 8-3: System messages of the PIM-IPv6 message type

Message ID	Event level	Message text	
	Description and action		
19040001	85	A received Bootstrap message was ignored because a unicast route to the BSR was not found. (source = <i><source address<="" i=""/>&gt;, BSR address = <i><ipv6 address<="" i="">&gt;)</ipv6></i></i>	
	<ul> <li>A received PIM message was ignored because the unicast route to the bootstrap router address in the PIM Bootstrap message was not found.</li> <li><source address=""/>: Source IPv6 address</li> <li><ipv6 address="">: Bootstrap router address</ipv6></li> <li>[Action]</li> <li>Check whether the route to the bootstrap router address in the Bootstrap packet exists.</li> </ul>		
19040002	\$5	BSR information was cleared because Rendezvous Point advertisements from the Bootstrap router were lost.	
	Bootstrap router information was cleared because advertisements from the Bootstrap router were lost. [Action] Check the reason why advertisements from the Bootstrap router were lost.		
19040003	<b>S</b> 6	BSR address has been changed. (new BSR address = < <i>ipv6 address</i> >)	
	<ul> <li>The Bootstrap router address was updated to &lt;<i>ipv6 address</i>&gt;.</li> <li>&lt;<i>ipv6 address</i>&gt;: Bootstrap router address</li> <li>If the Bootstrap router address is the Device, (this system) is displayed after the IPv6 address.</li> <li>[Action]</li> <li>None.</li> </ul>		
19040004	\$5	Deleted a neighbor because no Hello message has been advertised from the neighbor recently. (neighbor = <neighbor address="">, interface = <interface name="">, Generation ID = <generation id="">)</generation></interface></neighbor>	
	during a given i <ul> <li><neighbor a<="" li=""> <li><interface li="" n<=""> <li><generation< li=""> <li>NONE: Gene</li> </generation<></li></interface></li></neighbor></li></ul> [Action] <ol> <li>If the neighbor and bevice and</li> </ol>	<ul> <li><i>address</i>&gt;: Neighboring router's address</li> <li><i>name</i>&gt;: Interface name</li> <li><i>n id</i>&gt;: Generation ID</li> <li>ration ID is not supported</li> <li>poring router stops operation, make sure there is no communication failure between the the neighboring router.</li> <li>p problem, use the show cpu command to check whether the CPU load of the Device</li> </ul>	

Message ID	Event level	Message text
		Description and action
19040005	S5	Deleted a neighbor because a Hello message with holdtime 0 has been advertised from the neighbor. (neighbor = <neighbor address="">, interface = <interface name=""> Generation ID = <generation id="">)</generation></interface></neighbor>
	<ul> <li>Adjacency was deleted because a PIM Hello message whose holdtime value is 0 was received from the neighboring router.</li> <li><neighbor address="">: Neighboring router's address</neighbor></li> <li><interface name="">: Interface name</interface></li> <li><generation id="">: Generation ID NONE: Generation ID is not supported [Action] None.</generation></li> </ul>	
19040006	S6	Added a neighbor. (neighbor = <neighbor address="">, interface = <interface name=""> Generation ID = <generation id="">)</generation></interface></neighbor>
	<ul> <li>A new neighboring router was detected.</li> <li><neighbor address="">: Neighboring router's address</neighbor></li> <li><interface name="">: Interface name</interface></li> <li><generation id="">: Generation ID NONE: Generation ID is not supported [Action] None.</generation></li> </ul>	
19040008	S5	Refreshed a neighbor because of a change of Generation ID. (neighbor = < <i>neighbor</i> <i>address</i> >, interface = < <i>interface name</i> >, old Generation ID = < <i>old generation id</i> > new Generation ID = < <i>new generation id</i> >)
	<ul> <li>The Generation ID of a neighboring router has changed.</li> <li>&lt;<i>neighbor address&gt;</i>: Neighboring router's address</li> <li>&lt;<i>interface name&gt;</i>: Interface name</li> <li>&lt;<i>old generation id&gt;</i>: Generation ID before the change NONE: The neighboring router is not supported.</li> <li>&lt;<i>new generation id&gt;</i>: Generation ID after the change NONE: The neighboring router is not supported.</li> <li>[Action] None.</li> </ul>	
19040009	S6	Updated a DR address. (interface = < <i>interface name</i> >, old DR address = < <i>old ipve address</i> >, new DR address = < <i>ipv6 address</i> >)
	<ul><li><interface< li=""><li><old ipv6<="" li=""></old></li></interface<></li></ul>	ss has been updated to <i><ipv6 address=""></ipv6></i> on the interface <i><interface name=""></interface></i> . <i>name&gt;</i> : Interface name <i>address&gt;</i> : Previous DR address <i>ress&gt;</i> : DR address

### 8.4 MLD

The following table shows the system messages of the  ${\tt MLD}$  message type.

### Table 8-4: System messages of the MLD message type

Message ID	Event level	Message text
	Description and action	
19030001	S6	Updated a querier address. (interface = < <i>interface name</i> >, new querier = < <i>ipv6</i> address>, old querier = < <i>old ipv6</i> address>)
	<ul> <li>The querier was updated to &lt;<i>ipv6 address</i>&gt; on the interface <i>interface name</i>&gt;.</li> <li>&lt;<i>iinterface name</i>&gt;: Interface name</li> <li>&lt;<i>ipv6 address</i>&gt;: Querier IPv6 address (this system): Displayed if the querier IPv6 address is the Device address.</li> <li>&lt;<i>old ipv6 address</i>&gt;: Previous querier IPv6 address (this system): Displayed if the previous querier IPv6 address is the Device address.</li> <li>[Action] None.</li> </ul>	

### 8.5 MULTI-IPv4

The following table shows the system messages of the MULTI-IPv4 message type.

### Table 8-5: System messages of the MULTI-IPv4 message type

Message ID	Event level	Message text		
		Description and action		
0f020001	S6	The IPv4 multicast routing program (pimd) restarted because the IPv4 multicast (PIM) max-interfaces configuration was changed.		
	The IPv4 multicast routing program restarted because the IPv4 multicast (PIM) information of the running configuration was changed by the ip pim max-interface configuration command. [Action] None.			
0f020002	S3	Suspended learning IPv4 multicast routing entries because the number of routing entries exceeded the maximum. (number = <i><number></number></i> )		
	<ul> <li>One or more entries were discarded because the number of IPv4 multicast routing entries exceeded the maximum value of <i><number></number></i>.</li> <li><i><number></number></i>: Maximum number of IPv4 multicast routing entries [Action]</li> <li>1. Check whether more than the expected number of requests to add multicast routing entries were generated. The number of multicast routing entries exceeds the maximum value.</li> <li>2. Check the settings of the ip pim mroute-limit configuration command.</li> <li>3. Check the network configuration and reconsider the configuration of the Device.</li> </ul>			
0f020003	S6	Resumed learning IPv4 multicast routing entries because the number of routing entries fell below the maximum. (number = <i><number></number></i> )		
	<ul> <li>The system has recovered from the state in which requests to add IPv4 multicast routing entries were discarded.</li> <li><i><number></number></i>: Maximum number of IPv4 multicast routing entries [Action] None.</li></ul>			
0f020004	S3	Suspended creating IPv4 multicast forwarding entries because the number of forwarding entries exceeded the maximum. (number = <i><number></number></i> )		
	<ul> <li>One or more IPv4 multicast forwarding entries were discarded because the number of entries exceeded the maximum value of &lt;<i>number</i>&gt;.</li> <li>&lt;<i>number</i>&gt;: Maximum number of IPv4 multicast forwarding entries</li> <li>[Action]</li> <li>Check whether more than the expected number of requests to add multicast forwarding entries were generated. The number of multicast forwarding entries exceeds the maximum value.</li> <li>Check whether a negative cache was generated due to reception of multicast packets that were not forwarded.</li> <li>Check the settings of the ip pim mcache-limit configuration command.</li> <li>Check the network configuration and reconsider the configuration of the Device.</li> </ul>			
0f020005	S6	Resumed creating IPv4 multicast forwarding entries because the number of forwarding entries fell below the maximum. (number = <i><number></number></i> )		
	discarded.	orwarding entries have recovered from the state in which requests to add entries were Maximum number of IPv4 multicast forwarding entries		

Message ID	Event level	Message text	
	Description and action		
0f020006	83	Suspended receiving IGMP requests because the number of IGMP groups exceeded the limit number at interface. (number = <i><number></number></i> , interface = <i><interface name=""></interface></i> )	
	<ul> <li>One or more requests were discarded because the interface <i><interface name=""></interface></i> received a request that exceeded the IGMP multicast group limit value of <i><number></number></i>.</li> <li><i><number></number></i>: IGMP multicast group limit</li> <li><i><interface name=""></interface></i>: Interface name</li> <li>[Action]</li> <li>Check whether more than the expected number of requests to add IGMP multicast groups were generated.</li> <li>Check the settings of the ip igmp group-limit configuration command.</li> <li>Check the network configuration and reconsider the configuration of the Device.</li> </ul>		
0f020007	S6	Resumed receiving IGMP requests because the number of IGMP groups fell below the limit number at interface. (number = <i><number></number></i> , interface = <i><interface name=""></interface></i> )	
	The interface <i><interface name=""></interface></i> recovered from the state in which requests to add IGMP multicast groups were discarded.  • <i><number></number></i> : IGMP multicast group limit • <i><interface name=""></interface></i> : Interface name [Action] None.		
0f020008	83	Suspended receiving IGMP requests because the number of IGMP sources exceeded the limit number at interface. (number = <i><number></number></i> , interface = <i><interface name=""></interface></i> )	
	<ul> <li>A request was discarded because the interface <i><interface name=""></interface></i> received a request that exceeded the limit value of <i><number></number></i> for the source that belongs to IGMP multicast group.</li> <li><i><number></number></i>: Limit on sources that belong to the IGMP multicast group</li> <li><i><interface name=""></interface></i>: Interface name</li> <li>[Action]</li> <li>1. Check whether more than the expected number of requests to add sources that belong to the IGMP multicast group were generated.</li> <li>2. Check the settings of the ip igmp source-limit configuration command.</li> <li>3. Check the network configuration and reconsider the configuration of the Device.</li> </ul>		
0f020009	S6	Resumed receiving IGMP requests because the number of IGMP sources fell below the limit number at interface. (number = <i><number></number></i> , interface = <i><interface name=""></interface></i> )	
	The interface <i><interface name=""></interface></i> has recovered from the state in which requests to add sources that belong to the IGMP multicast group were discarded. <ul> <li><i><number></number></i>: Limit on sources that belong to the IGMP multicast group</li> <li><i><interface name=""></interface></i>: Interface name</li> </ul> <li>[Action] <ul> <li>None.</li> </ul> </li>		

### 8.6 MULTI-IPv6

The following table shows the system messages of the MULTI-IPv6 message type.

### Table 8-6: System messages of the MULTI-Pv6 message type

Message ID	Event level	Message text	
		Description and action	
19020001	\$6	The IPv6 multicast routing program (pim6sd) restarted because the IPv6 multicast (PIM6) max-interfaces configuration was changed.	
	The IPv6 multicast routing program restarted because the IPv6 multicast (PIM6) information of the running configuration was changed by the ipv6 pim max-interface configuration command. [Action] None.		
19020002	\$3	Suspended learning IPv6 multicast routing entries because the number of routing entries exceeded the maximum. (number = < <i>number</i> >)	
	<ul> <li>One or more entries were discarded because the number of IPv6 multicast routing entries exceeded the maximum value of &lt;<i>number</i>&gt;.</li> <li>&lt;<i>number</i>&gt;: Maximum number of IPv6 multicast routing entries [Action]</li> <li>Check whether more than the expected number of requests to add multicast routing entries were generated. The number of multicast routing entries exceeds the maximum value.</li> <li>Check the settings of the ipv6 pim mroute-limit configuration command.</li> <li>Check the network configuration and reconsider the configuration of the Device.</li> </ul>		
19020003	S6	Resumed learning IPv6 multicast routing entries because the number of routing entries fell below the maximum. (number = <i><number></number></i> )	
	The system has recovered from the state in which requests to add IPv6 multicast routing entries were discarded. <ul> <li><number>: Maximum number of IPv6 multicast routing entries</number></li> <li>[Action]</li> <li>None.</li> </ul>		
19020004	\$3	Suspended creating IPv6 multicast forwarding entries because the number of forwarding entries exceeded the maximum. (number = <i><number></number></i> )	
	<ul> <li>One or more entries were discarded because the number of IPv6 multicast forwarding entries exceeded the maximum value of &lt;<i>number</i>&gt;.</li> <li>&lt;<i>number</i>&gt;: Maximum number of IPv6 multicast forwarding entries</li> <li>[Action]</li> <li>1. Check whether more than the expected number of requests to add multicast forwarding entries were generated. The number of multicast forwarding entries exceeds the maximum value.</li> <li>2. Check whether a negative cache was generated due to reception of multicast packets that were not forwarded.</li> <li>3. Check the settings of the ipv6 pim mcache-limit configuration command.</li> <li>4. Check the network configuration and reconsider the configuration of the Device.</li> </ul>		
19020005	S6	Resumed creating IPv6 multicast forwarding entries because the number of forwarding entries fell below the maximum. (number = $<$ number>)	
	<ul> <li>The system has recovered from the state in which requests to add IPv6 multicast forwarding entries were discarded.</li> <li>&lt;<i>number</i>&gt;: Maximum number of IPv6 multicast forwarding entries [Action]</li> <li>None.</li> </ul>		

Message ID	Event level	Message text	
	Description and action		
19020006	83	Suspended receiving MLD requests because the number of MLD groups exceeded the limit number at interface. (number = <i><number></number></i> , interface = <i><interface name=""></interface></i> )	
	<ul> <li>A request was discarded because the interface <i><interface name=""></interface></i> received a request that exceeded the MLD multicast group limit value of <i><number></number></i>.</li> <li><i><number></number></i>: MLD multicast group limit</li> <li><i><interface name=""></interface></i>: Interface name</li> <li>[Action]</li> <li>Check whether more than the expected number of requests to add MLD multicast groups were generated.</li> <li>Check the settings of the ipv6 mld group-limit configuration command.</li> <li>Check the network configuration and reconsider the configuration of the Device.</li> </ul>		
19020007	86	Resumed receiving MLD requests because the number of MLD groups fell below the limit number at interface. (number = <i><number></number></i> , interface = <i><interface name=""></interface></i> )	
	The interface <i><interface name=""></interface></i> has recovered from the state in which requests to add MLD multicast groups were discarded.  • <i><number></number></i> : MLD multicast group limit • <i><interface name=""></interface></i> : Interface name [Action] None.		
19020008	83	Suspended receiving MLD requests because the number of MLD sources exceeded the limit number at interface. (number = < <i>number</i> >, interface = < <i>interface name</i> >)	
	<ul> <li>A request was discarded because the interface <i><interface name=""></interface></i> received a request that exceeded the limit value of <i><number></number></i> for the source that belongs to MLD multicast group.</li> <li><i><number></number></i>: Limit on sources that belong to the MLD multicast group</li> <li><i><interface name=""></interface></i>: Interface name</li> <li>[Action]</li> <li>1. Check whether more than the expected number of requests to add sources that belong to an MLD multicast group were generated.</li> <li>2. Check the settings of the ipv6 mld source-limit configuration command.</li> <li>3. Check the network configuration and reconsider the configuration of the Device.</li> </ul>		
19020009	S6	Resumed receiving MLD requests because the number of MLD sources fell below th limit number at interface. (number = <i><number></number></i> , interface = <i><interface name=""></interface></i> )	
	The interface <i><interface name=""></interface></i> has recovered from the state in which requests to add sources that belong to the MLD multicast group were discarded. <ul> <li><i><number></number></i>: Limit on sources that belong to the MLD multicast group</li> <li><i><interface name=""></interface></i>: Interface name</li> </ul> <li>[Action] <ul> <li>None.</li> </ul> </li>		

### 8.7 MULTI-INFO

The following table shows the system messages of the MULTI-INFO message type.

### Table 8-7: System messages of the MULTI-INFO message type

Message ID	Event level	Message text
		Description and action
19050001	S6	An interface was added from the output interface list of IPv6 multicast forwarding entries. (interface = <interface name="">, source = <source address=""/>, group = <group address="">)</group></interface>
	The interface <i>cinterface name</i> > was added to the output interface list of IPv6 multicast forwarding entries. This message is output when the ipv6 multicast join-prune-event logging enable configuration command is specified. • <i>cinterface name</i> >: Interface name • <i>csource address</i> >: Source IPv6 address • <i>cgroup address</i> >: IPv6 group address [Action] None.	
19050002	S6	An interface was deleted from the output interface list of IPv6 multicast forwarding entries. (interface = <interface name="">, source = <source address=""/>, group = <group address="">)</group></interface>
	The interface <interface name=""> was removed from the output interface list of IPv6 multicast forwarding entries. This message is output when the ipv6 multicast join-prune-event logging enable configuration command is specified. • <interface name="">: Interface name • <source address=""/>: Source IPv6 address • <group address="">: IPv6 group address [Action] None.</group></interface></interface>	

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