

AX8600R

AX8600R

Software Manual Corrections

(For Version 12.1 or later)

AlaxaIA

■ Preface

This document contains corrections that have been made to the AX8600R software manuals (All Rights Reserved, Copyright(C), 2013, ALAXALA Networks, Corp.). When you read a manual listed in the following table, please also read this document. The table below lists the software manuals to which the corrections in this document apply.

No.	Manual name	Manual number	Editions history
1	AX8600R Software Manual Configuration Guide Vol. 1 (for Version 12.1)	AX86R-S001X	August 2013
2	AX8600R Software Manual Configuration Guide Vol. 2 (for Version 12.1)	AX86R-S002X	August 2013
3	AX8600R Software Manual Configuration Guide Vol. 3 (for Version 12.1)	AX86R-S003X	August 2013
4	AX8600R Software Manual Configuration Command Reference Vol. 1 (for Version 12.1)	AX86R-S004X	August 2013
5	AX8600R Software Manual Configuration Command Reference Vol. 2 (for Version 12.1)	AX86R-S005X	August 2013
6	AX8600R Software Manual Configuration Command Reference Vol. 3 (for Version 12.1)	AX86R-S006X	August 2013
7	AX8600R Software Manual Operation Command Reference Vol. 1 (for Version 12.1)	AX86R-S007X	August 2013
8	AX8600R Software Manual Operation Command Reference Vol. 2 (for Version 12.1)	AX86R-S008X	August 2013
9	AX8600R Software Manual Operation Command Reference Vol. 3 (for Version 12.1)	AX86R-S009X	August 2013
10	AX8600R Software Manual Message and Log Reference (for Version 12.1)	AX86R-S010X	August 2013
11	AX8600R Software Manual MIB Reference (for Version 12.1)	AX86R-S011X	August 2013

■ Trademarks

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

Ethernet is a registered trademark of Xerox Corporation.

IPX is a trademark of Novell, Inc.

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

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

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

■ Note

Information in this document is subject to change without notice.

■ Editions history

March 2014 (Edition 3)

May 2014 (Revision 1 for Edition 3)

■ Copyright

All Rights Reserved, Copyright(C), 2013, 2014, ALAXALA Networks, Corp.

History of Amendments

Changes in Edition 3

Item	Changes
1. Configuration Guide Vol. 1 (For Version 12.1) (AX86R-S001X)	3.2.1 Number of table entries [Change]
	3.2.5 Network management [Change]
	11.6.1 Type of problem and recovery processing [Change]
2. Configuration Guide Vol. 2 (For Version 12.1) (AX86R-S002X)	10.1.3 sFlow packet format [Change]

Changes in Edition 2

Item	Changes
3. Configuration Guide Vol. 3 (For Version 12.1) (AX86R-S003X)	8.1.6 Notes [Addition]
4. Configuration Command Reference Vol. 1 (For Version 12.1) (AX86R-S004X)	[12] logging email-server [Change]
7. Operation Command Reference Vol. 1 (For Version 12.1) (AX86R-S007X)	[3] telnet [Addition]
8. Operation Command Reference Vol. 2 (For Ver. 12.1) (AX86R-S008X)	[6] clear cfm fault [Change]

Contents

1. Changes in Configuration Guide Vol.1 (For Version 12.1) (AX86R-S001X)	5
2. Changes in Configuration Guide Vol.2 (For Version 12.1) (AX86R-S002X)	8
3. Changes in Configuration Guide Vol.3 (For Version 12.1) (AX86R-S003X)	10
4. Changes in Configuration Command Reference Vol. 1 (For Version 12.1) (AX86R-S004X)	13
5. Changes in Configuration Command Reference Vol. 2 (For Version 12.1) (AX86R-S005X)	18
6. Changes in Configuration Command Reference Vol. 3 (For Version 12.1) (AX86R-S006X)	19
7. Changes in Operation Command Reference Vol. 1 (For Version 12.1) (AX86R-S007X)	20
8. Changes in Operation Command Reference Vol. 2 (For Version 12.1) (AX86R-S008X)	23
9. Changes in Operation Command Reference Vol. 3 (For Version 12.1) (AX86R-S009X)	24
10. Changes in Message and Log Reference (For Version 12.1) (AX86R-S010X)	25
11. Changes in MIB Reference (For Version 12.1) (AX86R-S011X)	27

1. Changes in Configuration Guide Vol.1 (For Version 12.1) (AX86R-S001X)

3. Capacity Limit

(1) 3.2.1 Number of table entries [Change]

Table 3-8 Number of route-type table entries for router-1 has been changed.

Before change:

Table 3-8 Number of route-type table entries for router-1

Pattern name	IPv4 unicast route ^{#1}	IPv4 multicast route	IPv6 unicast route ^{#2}	IPv6 multicast route	ARP	NDP
default	1015808	8000	425984	8000	120000	120000
ipv4-uni	1998848	0	0	0	120000	120000
ipv6-uni	32768	0	983040	0	120000	120000

After change:

Table 3-8 Number of route-type table entries for router-1

Pattern name	IPv4 unicast route ^{#1}	IPv4 multicast route	IPv6 unicast route ^{#2}	IPv6 multicast route	ARP	NDP	Total of ARP and NDP
default	1015808	8000	425984	8000	120000	120000	240000
ipv4-uni	1998848	0	0	0	120000	0	120000
ipv6-uni	32768	0	983040	0	32000	120000	120000

Table 3-9 Numbers of flow-type table entries for router-1 (by PRU) has been changed.

Change:

Table 3-9 Numbers of flow-type table entries for router-1 (by PRU)

Flow detection mode	Pattern name	Filter	QoS flow
Quantity-oriented mode	default	64000	64000
	filter	96000	32000
	filter-only	128000	--
	qos	32000 ← Corrected	96000
	qos-only	--	128000
Condition-oriented mode	default	32000	32000
	filter	48000	16000
	filter-only	64000	--
	qos	16000 ← Corrected	48000
	qos-only	--	64000

(2) 3.2.5 Network management [Change]

A note in *Table 3-17 Capacity limits for CFM* has been changed partially.

Change:

#1

The total number of CFM ports is the total number of interfaces sending CFM frames. You can check the total number of CFM ports by using the `show cfm summary` operation command.

Added → In addition, the number of MAs without a MEP specified can also be included to the total number of CFM ports.

Table 3-20 Capacity limits for the CFM database has been changed.

Before change:

Table 3-20 Capacity limits for the CFM database

Model	Number of MEP CCM database entries	Number of linktrace database entries [#]
All models of the AX8600R series (IEEE 802.1ag)	63/MEP	2048/device
All models of the AX8600R series (ITU-T Y.1731)	49152/device	2048/device

After change:

The following table describes the capacity limits for the CFM database. The values indicated here is the total of entries in IEEE 802.1ag and in ITU-T Y.1731.

Table 3-20 Capacity limits for the CFM database

Model	Number of MEP CCM database entries	Number of linktrace database entries [#]
All models of the AX8600R series	49152	2048

(3) 3.2.7 Unicast routing [Change]

Table 3-41 Maximum number of configurations that can be set has been changed.

Change:

Table 3-41 Maximum number of configurations that can be set

Category	Configuration command	Definition of "maximum number"	Maximum number of settings
IPv4 summarized route	ip summary-address	Number of lines	1024
IPv6 summarized route	ipv6 summary-address	Number of lines	1024
IPv4 static	ip route	Number of lines	262144 ← Corrected
IPv6 static	ipv6 route	Number of lines	262144 ← Corrected
RIP	network	Number of lines	256
	ip rip authentication key	Number of lines	512
...

11. Device Management

(1) 11.6.1 Type of problem and recovery processing [Change]

Table 11-34 Problem type and recovery processing has been changed.

Before change:

Table 11-34 Problem type and recovery processing

Problem type	Device response	Recovery processing	Areas affected
...
Fan unit failure	All the other fan units installed in the vertical and horizontal directions relative to the fan unit in which a failure was detected start rotating at high speed.	The failed fan unit does not recover automatically.	Communication is not affected. The temperature inside the Device might increase.

After change:

Table 11-34 Problem type and recovery processing

Problem type	Device response	Recovery processing	Areas affected
...
Fan unit failure	When the Device detects a fan unit failure of FAN1, FAN4 starts rotating at high speed. When the Device detects a fan unit failure of FAN3, FAN6 starts rotating at high speed.	The failed fan unit does not recover automatically. Replacing the failed fan unit, the high-speed rotation is canceled.	Communication is not affected. The temperature inside the Device might increase.

2. Changes in Configuration Guide Vol.2 (For Version 12.1) (AX86R-S002X)

9. Port Mirroring

(1) 9.1.3 Notes on using port mirroring [Change] [Addition]

(1) Notes on mirroring sent frames has been changed.

Before change:

If the monitored port and mirror port use different PRUs, the mirroring processing performance of the monitored port side PRU is limited to about 19 Mpacket/s. Note that this limitation does not apply to the normal packet forwarding.

After change:

If the monitored port and mirror port use different PRUs, the mirroring processing performance of the monitored port side PRU is limited to about 19 Mpacket/s.

(2) Bandwidth used during port mirroring has been added.

Addition:

(2) Bandwidth used during port mirroring

The following table shows the bandwidth used for each port-mirroring setting.

Table 9-1 Bandwidth of a PRU when port mirroring is used

Monitored port (received)	Monitored port (sent)	
	If the mirror port uses the same PRU	If the mirror port uses a different PRU
The bandwidth used on the receiving side of a PRU is the sum of the following items: - The receiving bandwidth of non-monitored ports - The receiving bandwidth of monitored ports $\times 2$	The bandwidth used on the sending side of a PRU is the sum of the following items: - The sending bandwidth of non-monitored ports - The sending bandwidth of monitored ports $\times 2$	The bandwidth used on the sending side of a PRU is the sum of the following items: - The sending bandwidth of non-monitored ports - The sending bandwidth of monitored ports $\times 2$ The bandwidth used on the receiving side of a PRU is the sum of the following items: - The receiving bandwidth of non-monitored ports and monitored ports - The sending bandwidth of monitored ports

Note: Non-monitored ports are the ports that a PRU handles but that are not set as monitored ports for port mirroring.

10. sFlow Statistics (Flow Statistics) Functionality

(1) 10.1.3 sFlow packet format [Change]

A note in *Table 10-14 Counter sample information* has been changed partially.

Before change:

#: Among the Ethernet statistics, ifDirection and dot3StatsSymbolErrors cannot be collected.

After change:

#: Among the Ethernet statistics, ifDirection cannot be collected.

3. Changes in Configuration Guide Vol.3 (For Version 12.1) (AX86R-S003X)

8. Policy-based Routing

(1) 8.1.6 Notes [Addition]

(2) Statistics when target packets are discarded as the default operation has been added.

Addition:

(2) Statistics when target packets are discarded as the default operation

If the default operation is selected as the next-hop selection operation and `deny` is specified for the default operation, use either of the following configuration commands to check the number of discarded packets.

- Policy-based routing for IPv4 packets
`show ip interface` operation command
- Policy-based routing for IPv6 packets
`show ipv6 interface` operation command

12. VRRP

(1) 12.1.6 Supported VRRP standards [Change]

The explanation for *Table 12-2 VRRP standards and the corresponding parameters to be specified in the vrrp mode command* has been changed.

Before change:

The format of advertisement packets and the meanings of the fields differ according to the standard. If a device that participates in a virtual router uses a different standard, the device might regard an advertisement packet sent from another device as an invalid packet and discard it. If this happens, multiple devices might become the master router. To prevent this from happening, when executing the above configuration command to apply VRRP standards to devices, make sure to apply the same VRRP standards to all the devices that participate in the virtual router. Note, however, that an RFC 5798-compliant device is interoperable with a draft-ietf-vrrp-unified-spec-02-compliant device.

After change:

The format of advertisement packets and the meanings of the fields differ according to the standard. If a device that participates in a virtual router uses a different standard, the device might regard an advertisement packet sent from another device as an invalid packet and discard it. If this happens, multiple devices might become the master router. To prevent this from happening, when executing the above configuration command to apply VRRP standards to devices, make sure to apply the same VRRP standards to all the devices that participate in the virtual router.

(2) 12.1.8 Notes on using VRRP [Change]

(2) Operation with IPv6 VRRP and RA has been changed.

Before change:

(omitted)

- When you specify a global address instead of a link-local address as the virtual IPv6 address, you need to specify a link-local address that is specific to an interface as the source IPv6 address of RA, not the virtual IPv6 address. This is because RA requires a link-local address as the source IPv6 address. In this case, VRRP and RA will not work together. If you want to use VRRP in conjunction with RA, do not specify a global address as the virtual IPv6 address.

After change:

(omitted)

- When you specify a global address as a virtual IPv6 address of a format defined in a standard draft-ietf-vrrp-ipv6-spec-02, draft-ietf-vrrp-ipv6-spec-07, or draft-ietf-vrrp-unified-spec-02, you need to specify a link-local address that is specific to an interface as the source IPv6 address of RA. This is because RA requires a link-local address as the source IPv6 address. In this case, VRRP and RA will not work together. If you want to use VRRP in conjunction with RA, do not specify a global address as the virtual IPv6 address.

(3) 12.2.2 Sequence of configuring VRRP [Change]

(2) Set a virtual IP address for the virtual router has been changed.

Before change:

When the IP address assigned to an IP interface is the same as the IP address configured for a virtual router, the virtual router containing the IP interface is the IP address owner. The priority of this virtual router is fixed at 255.

When you configure an IPv6 address for a virtual router, you can only specify a link-local unicast address according to VRRP standards. However, with the Device, you can also specify a global address.

After change:

When the IP address assigned to an IP interface is the same as the IP address configured for a virtual router, the virtual router containing the IP interface is the IP address owner. The priority of this virtual router is fixed at 255.

When you configure a global address as an IPv6 address for a virtual router, the link-local address of the virtual router is as shown in the table below. However, if the global address configured for the virtual router is different to the global address assigned to the IP interface, the virtual router is not the IP address owner.

Table 12-6 Link-local address of a virtual router for which a global address is configured

VRRP standard	Link-local address of the virtual router
RFC 5798	fe80::200:5eff:fe00:02{ <i>virtual-router-ID</i> }
draft-ietf-vrrp-ipv6-spec-02	No link-local address is configured for the virtual router.
draft-ietf-vrrp-ipv6-spec-07	The link-local address of the interface for which the virtual router is configured
draft-ietf-vrrp-unified-spec-02	

(4) 12.2.9 Configuring VRRP operation mode [Change]

(4) Setting draft-ietf-vrrp-unified-spec-02-compliant operation has been changed.

Before change:

Points to note

A device that operates in compliance with draft-ietf-vrrp-unified-spec-02 is interoperable with RFC 5798-compliant devices. Configure all the devices that participate in virtual routers to operate in compliance with RFC 5798 or draft-ietf-vrrp-unified-spec-02.

After change:

Points to note

Configure all the devices that participate in virtual routers to operate in compliance with draft-ietf-vrrp-unified-spec-02.

4. Changes in Configuration Command Reference Vol. 1 (For Version 12.1) (AX86R-S004X)

1. Reading the Manual

(1) Specifiable values for parameters [Change]

Table 1-2 Specifiable values for parameters has been changed.

Before change:

Table 1-2 Specifiable values for parameters

Parameter type	Description	Input example
...
Template name	Alphabetic characters can be used for the first character, and alphanumeric characters, hyphens (-), and underscores (_) can be used for the second and subsequent characters.	template <u>tmpl-01-01</u>
...

After change:

Table 1-2 Specifiable values for parameters

Parameter type	Description	Input example
...
Template name	Alphabetic characters can be used for the first character, and alphanumeric characters, hyphens (-), underscores (_), and periods (.) can be used for the second and subsequent characters.	template tmpl-01-01.01
...

3. Editing and Working with Configurations

(1) *apply-template* [Change]

Parameters has been changed.

Before change:

\$<parameter>

(omitted)

2. Range of values:

Enclose a character string in double quotation marks. Specifiable characters are alphanumeric characters and special characters. To enter a character string that does not include any special characters such as a space, you do not need to enclose the character string in double quotation marks ("). For details, see *Any character string in Specifiable values for parameters*.

After change:

\$<parameter>

(omitted)

2. Range of values:

Enclose a character string in double quotation marks. You can enter any character shown in *Table 1-3: List of character codes in Any character string in Specifiable values for parameters* except double quotation marks. To enter a character string that does not include any special characters such as a space, you do not need to enclose the character string in double quotation marks (").

7. Time Settings and NTP/SNTP

(1) ntp authentication-key [Change]

Parameters has been changed.

Before change:

md5 <value>

(omitted)

2. Range of values:

Specify by using 30 or fewer alphanumeric and special characters. For details, see *Any character string in Specifiable values for parameters*. However, you cannot use the following characters:

A space character, ampersand (&), left parenthesis ((), right parenthesis ()), left chevron (<), right chevron (>), left square bracket ([), right square bracket (]), or pipe (|)

After change:

md5 <value>

(omitted)

2. Range of values:

Enclose a character string of 30 or fewer characters in double quotation marks. Specifiable characters are alphanumeric characters and special characters. To enter a character string that does not include any special characters, you do not need to enclose the character string in double quotation marks ("). For details, see *Any character string in Specifiable values for parameters*. However, you cannot use the following characters:

A space character, ampersand (&), left parenthesis ((), right parenthesis ()), left chevron (<), right chevron (>), left square bracket ([), right square bracket (]), or pipe (|)

(2) sntp authentication-key [Change]

Parameters has been changed.

Before change:

md5 <value>

(omitted)

2. Range of values:

Specify by using 30 or fewer alphanumeric and special characters. For details, see *Any character string in Specifiable values for parameters*. However, you cannot use the following characters:

A space character, ampersand (&), left parenthesis ((), right parenthesis ()), left chevron (<), right chevron (>), left square bracket ([), right square bracket (]), or pipe (|)

After change:

md5 <value>

(omitted)

2. Range of values:

Enclose a character string of 30 or fewer characters in double quotation marks. Specifiable characters are alphanumeric characters and special characters. To enter a character string that does not include any special characters, you do not need to enclose the character string in double quotation marks ("). For details, see *Any character string in Specifiable values for parameters*. However, you cannot use the following characters:

A space character, ampersand (&), left parenthesis ((), right parenthesis ()), left chevron (<), right chevron (>), left square bracket ([), right square bracket (]), or pipe (|)

12. System Message Output and Log Management

(1) logging email-server [Change]

Parameters has been changed. [Version 12.1.A and later]

Before change:

`port <port number>`
(omitted)
2. Range of values:
0 to 65535

After change:

`port <port number>`
(omitted)
2. Range of values:
1 to 65535

17. Error Messages Displayed When Editing the Configuration

(1) 17.1.6 Errors related to the device and software status [Change]

Table 17-6 Error messages related to the device and software status has been changed.

Change:

Table 17-6 Error messages related to the device and software status

Message	Description
...	...
Command execution failed because the active and standby configurations do not match.	The configuration of the active BCU and the standby BCU devices does not match. When the software versions of the active BCU and the standby BCU match, restart the standby BCU, and match the running configuration and editing configuration of the standby BCU to the active BCU. If the software versions of the active BCU and the standby BCU do not match, change the software versions of the active BCU and the standby BCU so that they match.
Corrected	
...	...
Communication failed between the active and standby systems.	Communication failed between the active BCU and standby BCU devices. The configuration might not be applied to the standby BCU. Use the <code>synchronize diff</code> command to check the synchronization state of the configuration. When the standby BCU is not synchronized with the active BCU, if the software versions of the active BCU and the standby BCU match, restart the standby BCU, and match the running configuration and editing configuration of the standby BCU to the active BCU. If the software versions of the active BCU and the standby BCU do not match, change the software versions of the active BCU and the standby BCU so that they match.
Corrected	
...	...
The configuration was successfully changed on the active system, but not on the standby system. (reason = <reason>)	The configuration of the standby BCU cannot be changed because a problem occurred in an internal program. When the software versions of the active BCU and the standby BCU match, restart the standby BCU, and match the running configuration and editing configuration of the standby BCU to the active BCU. If the software versions of the active BCU and the standby BCU do not match, change the software versions of the active BCU and the standby BCU so that they match.
Corrected	
	<reason>: Additional information
...	...
The standby configuration cannot be changed because shared memory of the standby system is insufficient. (reason = <reason>)	The configuration of the standby BCU cannot be changed because of a shortage of shared memory on the standby BCU. When the software versions of the active BCU and the standby BCU match, restart the standby BCU, and match the running configuration and editing configuration of the standby BCU to the active BCU. If the software versions of the active BCU and the standby BCU do not match, change the software versions of the active BCU and the standby BCU so that they match.
Corrected	
	<reason>: Additional information
...	...

5. *Changes in Configuration Command Reference Vol. 2 (For Version 12.1) (AX86R-S005X)*

No changes were made.

6. *Changes in Configuration Command Reference Vol. 3 (For Version 12.1) (AX86R-S006X)*

No changes were made.

7. Changes in Operation Command Reference Vol. 1 (For Version 12.1) (AX86R-S007X)

3. Terminals and Remote Operations

(1) telnet [Addition]

The following has been added to *Notes*.

Addition:

- When a remote connection is established from the Device to another device, while a character string is being displayed on the screen, if an interruption operation is performed by, for example, pressing **Ctrl + C** from the operation terminal, the operation might not work correctly. In such a case, end the `telnet` command by using the method described in item 4 in *Notes*, and then re-establish the remote connection.

10. Device and Software Management

(1) show environment [Change]

Table 10-19 Displayed environment information of the device has been changed.

Change:

Table 10-19 Displayed environment information of the device

Item	Displayed information	Displayed detailed information ^{#1}
...
Accumulated running time ^{#7#8}	--	Cumulative operating time
	total	The cumulative operating time since the power of the device is turned on
Corrected	caution ^{#9}	The cumulative operating time of the high-temperature caution state or the high-temperature warning state
	critical	The cumulative operating time of the high-temperature warning state

(omitted)

#8: `notconnect` is displayed if no board is installed.

Added → #9: The cumulative operating time of the high-temperature warning state is also included in the cumulative operating time of the high-temperature caution state.

14. Dump Information

(1) show dumpfile [Change]

Table 14-6 Information displayed by the show dumpfile command has been changed.

Change:

Table 14-6 Information displayed by the show dumpfile command

Item	Displayed information	Displayed detailed information
File storage directory	Directory name	[/dump0]: Storage directory for BCU dump files [/usr/var/hardware]: Storage directory for dump files for SFU, PRU, NIF, PS, and FAN [/usr/var/core]: Core file storage directory
File information ^{#1#2#3#4}	File name	File name ^{#5} bcuXX.000: BCU dump file paXX.YYY: PA failure dump file sfuXX.YYY: SFU failure dump file pruXX.YYY: PRU failure dump file nifXX.YYY: NIF failure dump file psXX.000: PS failure dump file fanXX.000: FAN failure dump file paXX.cmd: PA command dump file sfuXX.cmd: SFU command dump file pruXX.cmd: PRU command dump file nifXX.cmd: NIF command dump file xxxx.core: Core file
	Collect date	Dump collection date and time Date and time the dump file was collected
	Version	Version information Software type and version ^{#6}
	Serial information	Serial information --
	Factor	Reason for collecting dump Corrected →

(omitted)

#5: XX represents the unit number, YYY represents the serial number, and xxxx represents an arbitrary character string.

Corrected →

#6: When a BCU dump file is collected, software type of the BCU dump is not displayed.

#7: When a BCU dump file is collected due to a failure, only the message identifier indicating the contents of the failure is displayed. For other dump files, the message identifier and the details of message type are displayed.

16. Log Management

(1) *show logging* [Change]

Parameters has been changed.

Before change:

`count` *<count>*

Displays operation log entries for the specified number of entries from the latest entry. The range of values that can be specified for *<count>* is from 1 to 10000000.

Operation when this parameter is omitted:

Displays 3000 operation log entries from the latest entry.

After change:

`count` *<count>*

Displays operation log entries for the specified number of entries from the latest entry. The range of values that can be specified for *<count>* is from 1 to 10000000.

Operation when this parameter is omitted:

Displays 3000 operation log entries from the latest entry. Note that, if the `day` parameter is specified, the number of entries is unlimited.

8. Changes in Operation Command Reference Vol. 2 (For Version 12.1) (AX86R-S008X)

6. CFM

(1) clear cfm fault [Change]

Notes has been changed. [Version 12.1.A and later]

Before change:

Notes

None

After change:

Notes

1. When the `Timeout` or `LOC` status occurs, if failure information is cleared by using this command, the system behavior after the information is cleared differs between IEEE 802.1ag and ITU-T Y.1731.

For IEEE 802.1ag, after failure information for the `Timeout` status of the relevant remote MEP is cleared, if no CCMs are received, the `Timeout` status is not detected. The system assumes that a failure has occurred if the `Timeout` status is detected after a CCM is received and the failure is resolved.

For ITU-T Y.1731, after failure information for the `LOC` status of the relevant remote MEP is cleared, if no CCMs are received, the `LOC` status is detected again. For this reason, failure information for the `LOC` status appears to remain. If you use the `clear cfm remote-mep` command to clear the relevant remote MEP information, the `LOC` status is no longer redetected.

9. Changes in Operation Command Reference Vol. 3 (For Version 12.1) (AX86R-S009X)

9. VRRP

(1) show vrrpstatus [Change]

Table 9-2 Displayed detailed information about virtual router status has been changed.

Change:

Table 9-2 Displayed detailed information about virtual router status

Item	Displayed information	Displayed detailed information
...
Virtual Router IP Address : <ip address>[,<ip address>] [(ADDRESS OWNER)] ←	IP address of the virtual router Corrected	(ADDRESS OWNER): Displayed if the user is the owner of the address. If a global address is assigned to an IPv6 virtual router that complies with RFC 5798, the link-local address is displayed at the same time. } Added
...
IP Address Count : <N>	Number of virtual router IP addresses	If a global address is assigned to an IPv6 virtual router that complies with draft-ietf-vrrp-ipv6-spec-07 and draft-ietf-vrrp-unified-spec-02, the number of virtual router IP addresses is displayed as 1. } Added
...

10. Changes in Message and Log Reference (For Version 12.1) (AX86R-S010X)

3. Operation Management

(1) 3.2 CONFIG [Change]

Table 3-2 System messages of the CONFIG message type has been changed.

Before change:

Table 3-2 System messages of the CONFIG message type

Message ID	Event level	Message text
		Description and action
09200005	S3	<p>The active and standby configurations are different.</p> <p>The active BCU configuration differs from the standby BCU configuration. If system switching occurs in this state due to a fatal error, clicking of the Reset button, pressing of the ACH switch, or execution of the <code>redundancy force-switchover</code> command or <code>reload active</code> command, the new active BCU will restart after the system switchover.</p> <p>This message appears if any of the following conditions are met:</p> <ul style="list-style-type: none"> • If the running configuration or configuration being edited was inconsistent between the active BCU and the standby BCU: • If the running configuration or configuration being edited has become inconsistent between the active BCU and the standby BCU: • If the running configuration or configuration being edited has become inconsistent after the start up of the BCU of the other system: <p>[Action]</p> <ol style="list-style-type: none"> 1. If the versions of software for the active system and the standby system match, restart the standby BCU so that its running configuration and configuration being edited match those of the active BCU. (Running configuration and configuration being edited of the standby BCU will be the same as those of the active BCU.) 2. If the versions of software are inconsistent between the active BCU and the standby BCU, match the software version of the active BCU to that of the standby BCU, and then restart the BCUs of both systems.
0930000d	S3	<p>The interface type is different from a port of the NIF. (NIF/port = <nif no.>/<port no.>)</p> <p>The line type of the Ethernet interface differs between the NIF and the configuration.</p> <ul style="list-style-type: none"> • <nif no.>: NIF number • <port no.>: Port number <p>[Action]</p> <p>Delete the configuration of the Ethernet interface where inconsistency was found. The configuration of an Ethernet interface for a NIF is automatically generated.</p>
0930000e	S6	<p>The NIF recovered from a mismatch with the interface configuration.</p> <p>The configurations of the installed NIF and Ethernet interface are now consistent.</p> <p>[Action]</p> <p>None.</p>

After change:

Table 3-2 System messages of the CONFIG message type

Message ID	Event level	Message text
		Description and action
09200005	S3	<p>The active and standby configurations are different.</p> <p>The active BCU configuration differs from the standby BCU configuration. If system switching occurs in this state due to a fatal error, clicking of the Reset button, pressing of the ACH switch, or execution of the <code>redundancy force-switchover</code> command or <code>reload active</code> command, the new active BCU will restart after the system switchover.</p> <p>This message appears if any of the following conditions are met:</p> <ul style="list-style-type: none"> • If the running configuration or configuration being edited was inconsistent between the active BCU and the standby BCU: • If the running configuration or configuration being edited has become inconsistent between the active BCU and the standby BCU: • If the running configuration or configuration being edited has become inconsistent after the start up of the BCU of the other system: <p>[Action]</p> <ol style="list-style-type: none"> 1. If the versions of software for the active system and the standby system match, restart the standby BCU so that its running configuration and configuration being edited match those of the active BCU. (Running configuration and configuration being edited of the standby BCU will be the same as those of the active BCU.) 2. If the versions of software are inconsistent between the active BCU and the standby BCU, match the software version of the active BCU to that of the standby BCU.
0930000d	S3	<p>The interface configuration is invalid because the NIF has changed. (NIF/port = <nif no.>/<port no.>)</p> <p>The Ethernet interface configuration is invalid because the NIF has changed.</p> <ul style="list-style-type: none"> • <nif no.>: NIF number • <port no.>: Port number <p>[Action]</p> <p>The configuration of the Ethernet interface is invalid because the Ethernet type (10BASE-T, 100BASE-TX, 1000BASE-T, 1000BASE-X, 10GBASE-R, or 100GBASE-R) changed. Delete the configuration of the invalid Ethernet interface. The configuration of an Ethernet interface for a NIF is automatically generated.</p>
0930000e	S6	<p>The interface configuration is valid for all the NIFs.</p> <p>The configuration of the Ethernet interface is now valid for all the installed NIFs.</p> <p>[Action]</p> <p>None.</p>

11. Changes in MIB Reference (For Version 12.1) (AX86R-S011X)

2. Standard MIBs (RFC-Compliant and IETF Draft MIB)

(1) 2.1 system group [Change]

Table 2-1 Implementation specifications for the system group has been changed.

Change:

Table 2-1 Implementation specifications for the system group

#	Object identifier	Access	Implementation specifications	Impl eme nted
4	sysContact {system 4}	R/W	<p>[Standard] A contact for the management node.</p> <p>[Implementation] A character string specified by using the <code>snmp-server contact</code> configuration command. By default, the string is a zero-length character string.</p> <p>Note that a value changed via the SetRequest operation is applied to the configuration of <code>snmp-server contact</code>.</p> <p>If the commit mode is a manual commit mode, values cannot be changed by using the <code>setRequest</code> operation.</p>	Y Added
5	sysName {system 5}	R/W	<p>[Standard] The name or domain name of the management node.</p> <p>[Implementation] A character string specified by using the <code>hostname</code> configuration command. By default, the string is a zero-length character string.</p> <p>Note that a value changed via the SetRequest operation is applied to the configuration of <code>hostname</code>.</p> <p>If the commit mode is a manual commit mode, values cannot be changed by using the <code>setRequest</code> operation.</p>	Y Added
6	sysLocation {system 6}	R/W	<p>[Standard] The location on which the management node is installed.</p> <p>[Implementation] A character string specified by using the <code>snmp-server location</code> configuration command. By default, the string is a zero-length character string.</p> <p>Note that a value changed via the SetRequest operation is applied to the configuration of <code>snmp-server location</code>.</p> <p>If the commit mode is a manual commit mode, values cannot be changed by using the <code>setRequest</code> operation.</p>	Y Added

(2) 2.2.2 ifTable [Change]

Table 2-3 Implementation specifications for ifTable has been changed.

Change:

Table 2-3 Implementation specifications for ifTable

#	Object identifier	Access	Implementation specifications	Implemented
9	ifAdminStatus {ifEntry 7}	R/W	<p>[Standard] The desired status of this interface:</p> <ul style="list-style-type: none"> • up (1) • down (2) • testing (3) <p>[Implementation] Depends on the interface, as follows:</p> <ul style="list-style-type: none"> • Management port: The default is up (1). If <code>shutdown</code> is specified in the configuration, the down status (2) is set. • AUX: Fixed value of up (1). The <code>setRequest</code> operation cannot change this value. • Loopback interface: Fixed value of up (1). The <code>setRequest</code> operation cannot change this value. • Link aggregation: If <code>shutdown</code> is specified for the channel group in the configuration, the down status (2) is set. • Port: If <code>shutdown</code> is specified in the configuration, the down status (2) is set. If the NIF is in the <code>shutdown</code> status, the <code>setRequest</code> operation cannot change this value. • Subinterface: The default is up (1). If <code>shutdown</code> is specified for the subinterface in the configuration, the down status (2) is set. <p>Note that a value changed via the <code>SetRequest</code> operation is applied to the configuration of the target interface.</p> <ul style="list-style-type: none"> • If up (1) is specified: <code>shutdown</code> is deleted from the configuration of the target interface. • If down (2) is specified: <code>shutdown</code> is set for the configuration of the target interface. <p>Values other than the above cannot be specified. If the commit mode is a manual commit mode, values cannot be changed by using the <code>setRequest</code> operation.</p>	Y

Added