

AX3800S/AX3650S Software Manual Corrections (For Version 11.10 and later)



May 14, 2013 (Edition 2)

Preface

This document contains corrections that have been made to the AX3800S/AX3650S software manuals (All Rights Reserved, Copyright(C), 2011, 2012, 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	AX3800S/AX3650S Software Manual	AX38S-S001X-40	December 2012
	Configuration Guide Vol. 1 (for Version 11.10)		
2	AX3800S/AX3650S Software Manual	AX38S-S002X-40	December 2012
	Configuration Guide Vol. 2 (for Version 11.10)		
3	AX3800S/AX3650S Software Manual	AX38S-S003X-40	December 2012
	Configuration Guide Vol. 3 (for Version 11.10)		
4	AX3800S/AX3650S Software Manual	AX38S-S004X-40	December 2012
	Configuration Command Reference Vol. 1 (for Version 11.10)		
5	AX3800S/AX3650S Software Manual	AX38S-S005X-40	December 2012
	Configuration Command Reference Vol. 2 (for Version 11.10)		
6	AX3800S/AX3650S Software Manual	AX38S-S006X-40	December 2012
	Operation Command Reference Vol. 1 (for Version 11.10)		
7	AX3800S/AX3650S Software Manual	AX38S-S007X-40	December 2012
	Operation Command Reference Vol. 2 (for Version 11.10)		
8	AX3800S/AX3650S Software Manual	AX38S-S008X-40	December 2012
	Message and Log Reference (for Version 11.10)		
9	AX3800S/AX3650S Software Manual	AX38S-S009X-40	December 2012
	MIB Reference (for Version 11.10)		

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Note

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Editions history

May 14, 2013 (Edition 2)

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History of Amendments

Changes in Edition 2

Item	Changes
1. Configuration Guide Vol. 1 (For Version 11.10)	3.2.8 High reliability function based on redundant configurations
(AX38S-S001X-40)	[Change]
	3.2.9 High reliability function based on network failure detection
	[Change]
	3.2.10Managing information about neighboring devices
	(LLDP/OADP) [Change]
	7.1.3 Support functionality [Change]
	7.7.2 Notes on stacks [Addition]
	16.12.1 Functionality [Change]
	16.16.1 Functionality [Change]
2. Configuration Guide Vol. 2 (For Version 11.10)	1.2.1 List of configuration commands [Change]
(AX38S-S002X-40)	2.3.1 List of configuration commands [Change]
	3.4.1 Bandwidth monitoring [Change]
	3.10 Description of priority determination [Change]
	3.10.1 Frames subject to priority determination [Change]
	3.10.2 CoS values and queuing priority [Change]
	3.10.4 Note on using priority determination [Change]
	3.13.1 Operation performed when a frame matches multiple QoS
	entries [Change]
	14.4.1 Overview [Change]
	14.6 Notes on using GSRP [Change]
	15.1.1 List of configuration commands [Change]
	15.1.4 Configuring Layer 3 redundancy switching [Change]
	15.2.2 Checking the GSRP state [Change]
	23.1 Description [Change]
3. Configuration Guide Vol. 3 (For Version 11.10)	7.4.2 Load balancing specifications [Change]
(AX38S-S003X-40)	7.4.3 Notes on using load balancing [Addition]
	7.6.1 Checking the maximum number of multipaths handled by the
	Switch [Change]
	14.4.2 IPv4 PIM-SM [Addition]
	15.1.1 List of configuration commands [Change]
	23.4.2 Load balancing specifications [Change]
	23.4.3 Notes on using load balancing [Addition]
	23.6.1 Checking the maximum number of multipaths handled by the
	Switch [Change]
4. Configuration Command Reference Vol. 1 (For Version	[4] switch provision [Change]
11.10) (AX38S-S004X-40)	18. Flow Detection Mode [Change]
	[18] flow action-change cos [Addition]
	[28] virtual-mac-learning-interval [Addition]
	41.1.3 Stack information [Change]
	41.1.11 VLAN information [Change]
	41.1.16 Information about flow detection mode [Change] [Addition
	41.1.17 Access list information [Change]
5. Configuration Command Reference Vol. 2 (For Version	[15] ip pim accept-bootstrap [Addition]
11.10) (AX38S-S005X-40)	
6. Operation Command Reference Vol.1 (For Version 11.10)	[5] show switch [Change]
(AX38S-S006X-40)	[9] show version [Change]
(AA303-3000A-40)	
(AA365-5000A-+0)	[9] show system [Change]

ltem	Changes		
	[16] show port [Change]		
	[16] no test interfaces [Change]		
	[30] show gsrp [Change]		
7. Operation Command Reference Vol.2 (For Version 11.10)	[7] show ip pim interface [Change]		
(AX38S-S007X-40)	[9] traceroute ipv6 [Change]		
8. Message and Log Reference (For Version 11.10)	3.4.4 Event location = VLAN (GSRP) [Addition]		
(AX38S-S008X-40)	3.7.1 Event location = PS [Addition]		
9. MIB Reference (For Version 11.10) (AX38S-S009X-40)	3.20 ax3830sSwitch group (System device model information MIB) [Change]		
	3.21.1 ax3830sChassis group implementation specifications (Chassis information) [Change]		
	3.21.6 ax3830sPhysLine group implementation specifications (Interface information) [Change]		

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For information that is not included in this document, information for AX3830S-44X4QS is the same as that for AX3830S-44X4QW. For such information, read the descriptions for AX3830S-44X4QW in the software manuals as the descriptions for AX3830S-44X4QS.

For details about devices, see the Hardware Instruction Manual.

1. Changes in Configuration Guide Vol. 1 (For Version 11.10) (AX38S-S001X-40)

3. Capacity Limit

(1) 3.2.8 High reliability function based on redundant configurations [Change]

(1) GSRP has been changed.

Change:

Corrected
The following table describes the capacity limits for GSRP.

Table 3-73 Capacity limits for GSRP



Table 3-75 Capacity limits for uplink redundancy has been changed.

Change:

Table 3-75 Capacity limits for uplink redundancy

Model	Number of uplink ports		Number of interfaces allowed per uplink port	
All models	25# ◀━━	Corrected	2	

Added

Each channel group is counted as one port.

(2) 3.2.9 High reliability function based on network failure detection [Change]

Table 3-78 L2 loop detection frame transmission rate has been changed.

Change:

Table 3-78 L2 loop detection frame transmission rate

Model	L2 loop detection frame transmission rate (per switch) ^{#1}		
	When using Spanning Tree Protocols,	When not using Spanning Tree	
	GSRP, or Ring Protocol	Protocols, GSRP, or Ring Protocol	
All models	30 pps (recommended) ^{#2}	200 pps (maximum) ^{#3}	

- Formula for calculating L2 loop detection frame transmission rate:

 $number-of-VLAN-ports-subject-to-L2-loop-detection \# 4 \ / \ frame-transmission-rate-(pps) \leq 100 \ \text{m}^{-1}$

```
sending-interval-(sec.)
```

#1

The transmission rate is automatically adjusted to within 200 pps in accordance with the above equation.

Corrected

#2

When using either Spanning Tree Protocols, GSRP, or Ring Protocol, set the transmission rate to no more than 30 pps. If the transmission rate is any higher, normal operation of the functionality is not guaranteed.

#3

Frames that exceed 200 pps will not be sent. Loop failures cannot be detected on target ports or VLANs from which frames have not been sent. Make sure that you set the sending interval to achieve a transmission rate of no more than 200 pps.

Added

Each channel group is counted as one port.

(3) 3.2.10 Managing information about neighboring devices (LLDP/OADP) [Change]

Table 3-83 Capacity limits for storing neighboring device information (LLDP/OADP) has been changed.

Change:

Table 3-83 Capacity limits for storing neighboring device information (LLDP/OADP)

Item	Maximum capacity
LLDP neighboring device information	52
OADP neighboring device information	$100^{\#}$ \blacksquare Corrected

Added

Each channel group is counted as one.

7. Description of Stack Functionality

(1) 7.1.3 Support functionality [Change]

Table 7-1 Support status in the stack has been changed. [Version 11.11 and later]

Change:

Table 7-1 Support status in the stack

	tem	Support status	Remark
High reliability based o network failure detection	h IEEE 802.3ah/UDLD	Y	None
	Storm control	Y 🔶	Corrected
	Layer 2 loop detection	Y	
	CFM		

(2) 7.7.2 Notes on stacks [Addition]

In Notes, the following has been added. [Version 11.11 and later]

Addition:

(10) Time until the added member switch starts up when storm control is used

If you add a member switch when storm control is used with a stack and the number of frames to be received is set as the threshold, it takes a few minutes longer for the switch to start up, compared to when adding a member switch when storm control is not used. The addition of a member switch includes the cases where one member switch is restarted in a stack configuration with two member switches and where software is updated, in addition to cases where a member switch is added to a stack configuration with one member switch.

13. Device Management

(1) 13.1.3 Checking the switch status [Change]

Figure 13-2 Checking the switch status has been changed.

Before change:	:				
<omitte< td=""><td>d></td><td></td><td></td><td></td><td></td></omitte<>	d>				
Fla	sh :				
		user area 114,175kB 91,381kB 205,556kB	config area 74kB 120,597kB 120,671kB	dump area 3,306kB 62,084kB 65,390kB	area total 117,555kB 274,062kB 391,617kB
<omitte< td=""><td>d></td><td></td><td></td><td></td><td></td></omitte<>	d>				
After change: <omitted></omitted>					
Fla	sh :				
	used free total	· · ·	config area 289kB 75,117kB 75,406kB	dump area 0kB 65,390kB 65,390kB	area total 121,450kB 155,126kB 276,576kB
<omitte< td=""><td>d></td><td></td><td></td><td></td><td></td></omitte<>	d>				

(2) 13.1.4 Checking the switch's internal memory [Change]

Figure 13-5 Checking flash memory capacity has been changed.

total 135,780kB

Before change:

>

After

	0				
<om< td=""><td>itted></td><td></td><td></td><td></td><td></td></om<>	itted>				
Flag	sh :				
>		user area 114,175kB 91,381kB 205,556kB	config area 74kB 120,597kB 120,671kB	dump area 3,306kB 62,084kB 65,390kB	area total 117,555kB 274,062kB 391,617kB
change):				
<om< td=""><td>itted></td><td></td><td></td><td></td><td></td></om<>	itted>				
Flag	sh :				
	used free	user area 121,161kB 14,619kB	config area 289kB 75,117kB	dump area 0kB 65,390kB	area total 121,450kB 155,126kB

75,406kB

65,390kB

276,576kB

16. Ethernet

(1) 16.12.1 Functionality [Change]

(1) Connection interface (a) 40GBASE-R has been changed. [Version 11.11 and later]

Change:

(a) 40GBASE-R

Corrected The 40GBASE-SR4, 40GBASE-LR4, and 40GBASE-CR4 interfaces are supported. The line speed is set to 40 Gbit/s, and fixed full-duplex connections or connections via auto-negotiation are supported. Note that half-duplex connections are not supported.

40GBASE-SR4:

Used for short-distance connections.

Connections via auto-negotiation are not supported, and only fixed full-duplex connections are supported. (150 m max.[#] in multi-mode).

40GBASE-LR4:

Added

Used for medium-distance connections. Connections via auto-negotiation are not supported, and only fixed full-duplex connections are supported.

(10 km max.[#] in single-mode).

40GBASE-CR4:

Used for short-distance connections.

Fixed full-duplex connections are not supported, and only connections via auto-negotiation are supported. (7 m max.[#] in multi-mode).

(2) 16.16.1 Functionality [Change]

(1) Connection interface (a) 40GBASE-R has been changed. [Version 11.11 and later]

Change:

(a) 40GBASE-R

Corrected OSFP+ for 40GBASE-SR and 40GBASE-LR is supported. For details on the interface, see 16.12 Description of the 40GBASE-R interface [AX3800S].

Note that when a QSFP+ for 40GBASE-R is used, it takes three to five seconds to determine the line type for the show interfaces operation command from when the transceiver is inserted.

2. Changes in Configuration Guide Vol. 2 (For Version 11.10) (AX38S-S002X-40)

1. Filters

(1) 1.2.1 List of configuration commands [Change]

The footnote (#) for *Table 1-19 List of configuration command* has been changed. [Version 11.11 and later]

Before change:

#

See 18. Flow Detection Mode in the manual Configuration Command Reference Vol. 1 For Version 11.10.

After change:

#

See 18. Flow Detection Modes and Flow Operations in the manual Configuration Command Reference Vol. 1 For Version 11.10.

2. Overview of QoS Control

(1) 2.3.1 List of configuration commands [Change]

Table 2-3 List of configuration commands has been changed. [Version 11.11 and later]

Change:

Table 2-3 List of configuration	o commands
---------------------------------	------------

Command name	Description
ip qos-flow-group	Applies an IPv4 QoS flow list to an Ethernet interface or VLAN and
	enables IPv4 QoS control.
ip qos-flow-list	Sets the QoS flow list used for IPv4 QoS flow detection.
ip qos-flow-list resequence	Resets the sequence number for the order in which the conditions in
	the IPv4 QoS flow list are applied.
ipv6 qos-flow-group	Applies an IPv6 QoS flow list to an Ethernet interface or VLAN and
	enables IPv6 QoS control.
ipv6 qos-flow-list	Sets the QoS flow list used for IPv6 QoS flow detection.
ipv6 qos-flow-list resequence	Resets the sequence number for the order in which the conditions in
	the IPv6 QoS flow list are applied.
mac qos-flow-group	Applies a MAC QoS flow list to an Ethernet interface or VLAN and
	enables MAC QoS control.
mac qos-flow-list	Sets the QoS flow list used for MAC QoS flow detection.
mac qos-flow-list resequence	Resets the sequence number for the order in which the conditions i
	the MAC QoS flow list are applied.
qos	Sets the flow detection condition and operation to be performed i
	the QoS flow list.
qos-queue-group	Applies QoS queue list information to an Ethernet interface and
	enables the legacy shaper.
qos-queue-list	Sets the scheduling mode in QoS queue list information.
remark	Specifies supplementary information for QoS.
traffic-shape rate	Sets port bandwidth control for an Ethernet interface.
flow action-change cos [#]	Sets the functionality for changing which frames are subject t
č	priority determination of the QoS functionality.
flow detection mode [#]	Sets the receiving-side flow detection mode for the filter and Qo
	control.

#

Added

Corrected See 18. Flow Detection Modes and Flow Operations in the manual Configuration Command Reference Vol. 1 For Version 11.10.

3. Flow Control

(1) 3.4.1 Bandwidth monitoring [Change]

Description after Table 3-10 has been changed.

Before change:

- Changing the queuing priority and updating DSCP do not work for the following frames:
- IPv4 and IPv6 packets exceeding the MTU
- Frames whose TTL is set to 1
- Frames whose hop limit is set to 1
- Frames with an IP option
- Frames with an IPv6 extension header
- IPv4 or IPv6 packets with an unknown receiver address

After change:

Penalties for updating DSCP do not work for the following frames:

- IPv4 and IPv6 packets exceeding the MTU
- Frames whose TTL is set to 1
- Frames whose hop limit is set to 1
- Frames with an IP option
- Frames with an IPv6 extension header
- IPv4 or IPv6 packets with an unknown receiver address

(2) 3.10 Description of priority determination [Change]

Description of priority determination has been changed. [Version 11.11 and later]

Before change:

Priority determination is functionality that uses CoS values to specify the priority of frames detected by flow detection in order to determine the send queue. Frames to which this functionality applies differ depending on the switch configuration.

The following figure shows the positioning of the priority determination block described in this section.

After change:

Priority determination is functionality that uses CoS values to specify the priority of frames detected by flow detection in order to determine the send queue. Frames to which this functionality applies differ depending on the switch configuration and the setting for changing which frames are subject to priority determination. For details, see 3.10.1 Frames subject to priority determination.

The following figure shows the positioning of the priority determination block described in this section.

(3) 3.10.1 Frames subject to priority determination [Change]

3.10.1 Frames subject to priority determination has been changed. [Version 11.11 and later]

Before change:

The following table describes switch configurations and their corresponding frames subject to priority determination.

Switch	Frame type					
configuration	Frames sent to the Switch	Frames forwarded by the				
		Switch				
All models	Ν	Y				
(in standalone mode)						
All models	Y	Y				
(in stack mode)						

Table3-15 Switch configuration and frames subject to priority determination

Legend: Y: Becomes subject to priority determination, N: Does not become subject to priority determination

After change:

The table below describes switch configurations, the setting for changing which frames are subject to priority determination, and the corresponding frames subject to priority determination. The functionality for changing which frames are subject to priority determination is used to make the frames that are sent to the Switch and are not subject to priority determination, subject to priority determination. By default, only frames forwarded by the Switch are subject to priority determination.

Table3-15 Switch configuration and frames subject to priority determination

Switch	Setting for changing which	Frame type		
configuration	frames are subject to priority determination	Frames sent to the Switch	Frames forwarded by the Switch	
All models	Not set	N	Y	
(in standalone mode)	Set	Y	Y	
All models	Not set	v	v	
(in stack mode)	Set	1	1	

Legend: Y: Becomes subject to priority determination, N: Does not become subject to priority determination

(4) 3.10.2 CoS values and queuing priority [Change]

Table 3-18 Frames whose values cannot be changed by priority determination has been changed.

Change:

Table 3-18 Frames whose values cannot be changed by priority determination
--

Frame type	CoS value	Queuing priority	
Frames spontaneously sent by the Switch	7	3	
The following frames received by the Switch:	5)	
• ARP frames			
Frames used for line test			
The following frames received by the Switch:	2		
• Incoming frames for which the learned sender MAC			
addresses are determined to have been moved			
Of the frames received by the Switch by Layer 3	2		
forwarding, the following packets and frames:			
• IPv4 and IPv6 packets exceeding the MTU			
• Frames whose TTL is set to 1		Co	rrecte
• Frames whose hop limit is set to 1			
• Frames with an IP option			
• Frames with an IPv6 extension header			
Of the frames received on the Switch by Layer 3	2		
forwarding, the following packets:			
• IPv4 or IPv6 packets with an unknown receiver			
address			
The following frames for which the Switch perform	3		
Layer 3 forwarding:			
Fragmented frames on the Switch)	
• Frames with an IP option			
• Frames with an IPv6 extension header			
• Forwarding frames that are temporarily retained on			
the Switch due to unresolved ARP or NDP			



(5) 3.10.4 Note on using priority determination [Change]

(1) Priority determination for frames has been changed. [Version 11.11 and later]

Change:

If an operation that raises the priority of the frame is specified, communication might be disabled because protocol control frames sent to the Switch cannot be received, or frames originated by the Switch cannot be sent. In particular, IP multicast packets are packets sent to the Switch and also are frames to be relayed. Therefore, be careful when raising the priority of the frames. If such a problem occurs, perform the following:

- When the stack is configured, if communication with protocol control frames sent to the Switch is disconnected, lower the priority of the frames.

Added

- In a standalone configuration, if communication with protocol control frames sent to the Switch is disconnected, specify the setting for changing which frames are subject to priority determination.
- If communication with frames originated by the Switch is disconnected, lower the priority of the frames.

(6) 3.13.1 Operation performed when a frame matches multiple QoS entries [Change]

Table 3-22 High and low priority entries that are exceptions and the resulting operation has been changed. [Version 11.11 and later]

Before change:

Table3-22 High and low priority entries that are exceptions and the resulting operation

Switch configuration	High priority entry	Low priority entry	Operation
Standalone	copy-user-prio rity	cos	The user priority and the CoS value of the frame sent to the Switch are applied to the operation of copy-user-priority, and the priority of the frame relayed by the Switch is applied to the CoS value specified for low priority entry.

After change:

Table 3-22 High and low priority entries that are exceptions and the resulting operation

Switch configuration	Setting for changing which frames are subject to priority determination	High priority entry	Low priority entry	Operation
Standalone	Not set	copy-user-pr iority	cos	The user priority and the CoS value of the frame sent to the Switch are applied to the operation of copy-user-priority, and the priority of the frame relayed by the Switch is applied to the CoS value specified for low priority entry.

14. Description of GSRP

(1) 14.4.1 Overview [Change]

(2) MAC address of the default gateway has been changed. [Version 11.11 and later]

Before change:

(2) MAC address of the default gateway

When you use GSRP to provide redundancy for the default gateway, a GSRP-specific virtual MAC address is used as the MAC address of the default gateway. A different virtual MAC address is assigned to each VLAN group ID.

The master switch periodically sends a GSRP control frame containing its virtual MAC address as the source MAC address to the lower-level LAN switches so that they can learn the virtual MAC address of the master switch.

After change:

(2) MAC address of the default gateway

When you use GSRP to provide redundancy for the default gateway, a GSRP-specific virtual MAC address is used as the MAC address of the default gateway. A different virtual MAC address is assigned to each VLAN group ID.

The master switch periodically sends a GSRP control frame (a frame for virtual MAC address learning) containing its virtual MAC address as the source MAC address to the lower-level LAN switches so that they can learn the virtual MAC address of the master switch.

(3) Sending VLAN ports and sending interval of frames for virtual MAC address learning has been added. [Version 11.11 and later]

Addition:

(3) Sending VLAN ports and sending interval of frames for virtual MAC address learning

Frames for virtual MAC address learning are sent to each VLAN port belonging to the master VLAN group, at the specified interval. The number of frames (sending rate) that can be sent per second is determined so that the frames can be sent to the target VLAN port at the specified interval. The sending rate is calculated by the following equation, and changes automatically in a range that is less than or equal to 100 pps. When the sending rate is calculated to be more than or equal to 100 pps, take caution because this means a VLAN port that does not send frames for virtual MAC address learning exists.

- Equation for calculating the sending rate for frames for virtual MAC address learning:

Sending rate (pps)[#] = number of VLAN ports that are to be sent/sending interval (seconds)

If the sending rate exceeds the maximum value (100 pps), no frames are sent.

Example: If there are 200 VLAN ports to be sent and if the sending interval is set to 5 seconds, the sending rate will be 40 pps.

(2) 14.6 Notes on using GSRP [Change]

(16) Learning virtual MAC addresses has been changed. [Version 11.11 and later]

Before change:

(16) Learning virtual MAC addresses

When you use Layer 3 redundancy switching, the MAC address of the default gateway for which GSRP is providing redundancy is a virtual MAC address. Conversely, the source MAC addresses in forwarded IP packets or frames that are voluntarily sent by the Switch are not virtual MAC addresses. Instead, a source MAC address is the MAC address of a switch or a VLAN.

GSRP periodically sends GSRP control frames to the devices that use a GSRP switch as the default gateway to allow them to learn the virtual MAC address of the default gateway. GSRP control frames are non-IP unicast frames with virtual MAC addresses as the source MAC addresses.

After change:

(16) Learning virtual MAC addresses

When you use Layer 3 redundancy switching, the MAC address of the default gateway for which GSRP is providing redundancy is a virtual MAC address. Conversely, the source MAC addresses in forwarded IP packets or frames that are voluntarily sent by the Switch are not virtual MAC addresses. Instead, a source MAC address is the MAC address of a switch or a VLAN.

GSRP periodically sends frames for virtual MAC address learning to the devices that use a GSRP switch as the default gateway to allow them to learn the virtual MAC address of the default gateway. Frames for virtual MAC address learning are non-IP unicast frames with virtual MAC addresses as the source MAC addresses.

15. Settings and Operation for GSRP

(1) 15.1.1 List of configuration commands [Change]

Table 15-1 List of configuration commands has been changed. [Version 11.11 and later]

Change:

Added

Table 15-1	List of	configuration	commands
------------	---------	---------------	----------

Command name	Description	
advertise-holdtime	Sets the retention time for GSRP Advertise frames.	
advertise-interval	Sets the sending interval for GSRP Advertise frames.	
backup-lock	Enables backup locking.	
flush-request-count	Sets the number of times that GSRP Flush request frames are sent.	
gsrp	Enables GSRP.	
gsrp-vlan	Configures a GSRP-managed VLAN.	
gsrp direct-link	Configures a direct link.	
gsrp exception-port	Configures a port not under GSRP control.	
gsrp limit-control	Enables the GSRP VLAN group-only control functionality.	
gsrp no-flush-port	Configures a port that does not send GSRP Flush request frames.	
gsrp reset-flush-port	Configures a port on which port resetting is used.	
layer3-redundancy	Enables Layer 3 redundancy switching.	
no-neighbor-to-master	Sets the switchover method to be used when a switch is in the back (neighbor unknown) state.	
port-up-delay	Enables the prevention of repeated switchover when links are unstable.	
reset-flush-time	Sets the length of the link-down time when port resetting is used.	
selection-pattern	Sets the priority for selecting the master and backup switches.	
vlan-group disable	Disables a VLAN group. The VLANs belonging to a disabled VLAN group stop sending and receiving traffic.	
vlan-group priority	Configures the priority of a VLAN group.	
vlan-group vlan	Assigns VLANs to a VLAN group.	
virtual-mac-learning-interval	Sets the sending interval for frames for virtual MAC address learning.	

(2) 15.1.4 Configuring Layer 3 redundancy switching [Change]

Points to note and Command examples have been changed. [Version 11.11 and later]

Change:

Points to note



Enable Layer 3 redundancy switching on both GSRP Switches. Layer 3 redundancy switching can be used only when the GSRP group ID is 1, 2, 3, or 4. When Layer 3 redundancy switching is used, the Switch under GSRP learns the virtual MAC address for GSRP by receiving the frame for virtual MAC address learning. The Switch under GSRP becomes flooded when aging occurs on the learned MAC address. Also, when a device is added to the network below, this device becomes flooded until the device receives a frame for virtual MAC address learning. Set the sending interval for frames for virtual MAC address learning by taking into account the amount of time flooding will occur.

When you use Layer 3 redundancy switching, assign the same IP addresses to VLANs on both GSRP switches. For details about how to assign IP addresses to VLANs, see 20.9 VLAN interfaces in the manual Configuration Guide Vol. 1 For Version 11.10. In addition, when you use Layer 3 redundancy switching, you must configure a special path to continue communication with the upstream network even if a GSRP switch fails. For details, see 14.5.3 Switchover due to a failure in the upstream network when Layer 3 redundancy switching is used.

Command examples

1. (config)# gsrp 1

Switches to GSRP configuration mode.

2. (config-gsrp)# layer3-redundancy

Enables Layer 3 redundancy switching.

3.(config-gsrp)# virtual-mac-learning-interval 100

Added

Sets the sending interval for frames for virtual MAC address learning to 100 seconds.

(3) 15.2.2 Checking the GSRP state [Change]

Figure 15-1 Results of executing the show gsrp detail command has been changed. [Version 11.11 and later]

Change:

Figure 15-1 Results of executing the show gsrp detail command

	<pre>> show gsrp detail Date 20XX/11/07 22:2</pre>	4:36	רט	rc		
Added	GSRP ID: 1 Local MAC Address Neighbor MAC Address Total VLAN Group Co GSRP VLAN ID Direct Port Limit Control GSRP Exception Port No Neighbor To Mast Backup Lock Port Up Delay Last Flush Receive Forced Shift Time Layer 3 Redundancy Virtual MAC Learnin VLAN Port Counts Virtual Link ID	s unts er Time g		0012.e205.003 2 105 0/10-11 Off 0/1-5 manual disable 0 - - On Interval 120	(Outpu n 15	
	1	r	: : : p		-	Neighbor 5 - 1 ports-priority-mac or State

Figure 15-2 Results of executing the show gsrp vlan-group command has been changed. [Version 11.11 and later]

Change:

Figure 15-2 Results of executing the show gsrp vlan-group command

```
> show gsrp 1 vlan-group 1
Date 20XX/11/07 22:25:13 UTC

GSRP ID: 1
Local MAC Address : 0012.e205.0000
Neighbor MAC Address : 0012.e205.0011
Total VLAN Group Counts : 1
Layer 3 Redundancy : On
Virtual MAC Learning : Interval 120 (Output rate 30pps)
VLAN Port Counts : Configuration 15, Capacity 3600
```

Added

```
VLAN Group ID : 1
  Member Port
  VLAN ID
                                : 110,200-210
                                : 0/6-8
  Member Port. 0/6-8Last Transition: 20XX/11/07 22:20:11 (Master to Backup)Transition by reason: Priority was lower than neighbor's
  Master to Backup Counts : 4
  Backup to Master Counts : 4
  Virtual MAC Address : 0000.8758.1307
                                                                Neighbor
                                    Local
  State : Backup
Acknowledged State : Backup
Advertise Hold Timer : 3
Priority : 100
Active Ports : 3
                                                                Master
                                                                101
                                  : 3
  Active Ports
                                                                3
                                  : 3
  Up Ports
>
```

Figure 15-3 Results of executing the show gsrp command has been changed. [Version 11.11 and later]

Change:

Added

Figure 15-3 Results of executing the show gsrp command

```
> show gsrp
Date 20XX/11/07 22:28:38 UTC
GSRP ID: 10
Local MAC Address : 0012.e205.0000
Neighbor MAC Address : 0012.e205.0011
Total VLAN Group Counts : 2
Layer 3 Redundancy : On
Virtual MAC Learning : Interval 120 (Output rate 30pps)
VLAN Port Counts : Configuration 15, Capacity 3600
VLAN Group ID Local State Neighbor State
1 Backup Master
8 Master Backup
```

23. Log Data Output Functionality

(1) 23.1 Description [Change]

Description has been changed. [Version 11.11 and later]

Change:

<omitted>

Log information collected on a Switch can be sent^{#1} to other devices (such as UNIX workstations) with the syslog functionality on the network by using the syslog interface^{#2,#3}. Corrected Also, log information can be sent to other devices on the network via email. This functionality means logs can be managed centrally even when multiple devices are being managed. Also, log information can be sent via email.

#1

Functionality to receive syslog messages from other devices is not supported.

#2

In syslog messages generated on the Switch, the HOSTNAME field of the HEADER part defined in RFC 3164 is not set.

#3

Added

Messages to the syslog server might not be sent to and logged in the server because IP packets temporarily cannot be sent to the syslog server immediately after a member switch switches from the backup switch to the master switch.

To view log information when the switch state changes, use the show logging operation command.

3. Changes in Configuration Guide Vol. 3 (For Version 11.10) (AX38S-S003X-40)

7. IPv4 Routing Protocol Overview

(1) 7.4.2 Load balancing specifications [Change]

Table 7-6 Maximum number of multipath routes has been changed. [Version 11.11 and later]

Before change:

Model	Maximum number of multipaths specified in switch configuration ^{#1}	Maximum number of multipaths handled by the switch ^{#2}	Maximum number of multipath routes the switch can handle ^{#2, #3}
AX3800S	1 to 4	4	1024#4
	5 to 8	8	512
	9 to 16, or multipath disabled ^{#5}	16	256
AX3650S	1 to 2	2	1024#4
	3 to 4	4	512
	5 to 8	8	256
	9 to 16, or multipath disabled ^{#5}	16	128

Table 7-6 Maximum number of multipath routes

#3

#4

The maximum number of multipath routes applies to the combined total of IPv4 and IPv6 routes.

For a single path, the maximum number of paths is determined by the capacity limit for the number of table entries. For multipath, the values in the table apply.

After change:

Table 7-6 Maximum number of multipath routes

Model	Maximum number of multipaths specified in switch configuration ^{#1}	Maximum number of multipaths handled by the switch ^{#2}	Maximum number of multipath routes the switch can handle ^{#2, #3, #4}
AX3800S	1 to 4	4	1024
	5 to 8	8	512
	9 to 16, or multipath disabled ^{#5}	16	256
AX3650S	1 to 2	2	1024
	3 to 4	4	512
	5 to 8	8	256
	9 to 16, or multipath disabled ^{#5}	16	128

#3

The maximum number of multipath routes applies to the combined total of IPv4 and IPv6 routes.

Note that multipath routes that have the same next hop IP address and VRF are counted as the same multipath route.

#4

The maximum number of paths is determined by the capacity limit for the number of table entries. However, the number of capacity for multipath is determined by the capacity limit indicated in the table.

(2) 7.4.3 Notes on using load balancing [Addition]

A note has been added. [Version 11.11 and later]

Addition:

10. The same multipath route might be divided into multiple multipath routes when the route is changed. Also, when the multipath route is switched due to, for example, a failure, and if a new multipath route is registered, resources for the total number of new and old multipath routes will be used temporarily because the new multipath keeps the status of the old multipath route when being registered. Make sure to operate the Switch with the number of multipath routes at a level which ensures that the number of multipath routes does not exceed the capacity limit when switching the route.

(3) 7.6.1 Checking the maximum number of multipaths handled by the Switch [Change]

The section title has been changed. [Version 11.11 and later]

Before change:

7.6.1 Checking the maximum number of multipaths handled by the Switch

After change:

7.6.1 Checking the status of multipaths handled by the Switch

Figure 7-14 Checking the maximum number of multipaths handled by the Switch has been changed. [Version 11.11 and later]

Before change:

Figure 7-14 Checking the maximum number of multipaths handled by the Switch

```
>show system
    :
    :
    Device resources
    Current selected swrt_table_resource: 13switch-2
    Current selected swrt_multicast_table: On
    Current selected unicast multipath number: 8
    :
    :
}
```

After change:

Figure 7-14 Checking the status of multipaths handled by the Switch

```
>show system
    :
    :
    Device resources
    Current selected swrt_table_resource: 13switch-2
    Current selected swrt_multicast_table: On
    Current selected unicast multipath number: 8
    :
```

>

```
<u>Multipath table entry: current number=1</u>, max number=512
MAC-Address table entry : current number=7, max number=32768
:
```

14. Description of IPv4 Multicasting

(1) 14.4.2 IPv4 PIM-SM [Addition]

(9) Additional functionality for PIM-SM has been added. [Version 11.11 and later]

Addition:

(9) Additional functionality for PIM-SM

(a) Suppression functionality for receiving bootstrap messages

When a new network is configured in the multicast network that is in operation and when the BSR candidate is incorrectly set, the BSR candidate becomes the main BSR and might stop the multicast communication in the entire connected multicast network.

This functionality discards the PIM-Bootstrap message that was sent from the newly configured network with an invalid setting, by setting the ip pim accept-bootstrap configuration command on the interface that is connected to the new network. This enables protection of the multicast network that is currently in operation. The following figure shows the operation of this functionality.







The Switch on the network boundary discards the PIM-Bootstrap message sent from the BSR candidate on the newly configured network. This allows you to prevent forwarding the PIM-Bootstrap message from the new network to the existing network. On the other hand, the PIM-Bootstrap message sent from the existing network will be forwarded to the new network.

15. Settings and Operation for IPv4 Multicasting

(1) 15.1.1 List of configuration commands [Change]

Table 15-1 List of configuration commands has been changed. [Version 11.11 and later]

Change:

Table15-1 List	of configuration	commands
----------------	------------------	----------

	Command name	Description	
	ip igmp group-limit	Specifies the maximum number of groups that can run on an interface.	
	ip igmp router	Runs IGMP on the interface.	
	ip igmp source-limit	Specifies the maximum number of sources during group participation.	
	ip igmp ssm-map enable	Enables IPv4 PIM-SSM mapping operation to be used with IGMPv2 or IGMPv3 (EXCLUDE mode).	
	ip igmp ssm-map static	Sets the group address and source address for which PIM-SSM runs.	
	ip igmp static-group	Enables static additions to IGMP groups.	
	ip igmp version	Changes the IGMP version.	
	ip multicast-routing	Enables the IPv4 multicast functionality to be used.	
d	ip pim accept-bootstrap	Sets the received bootstrap message sent from the applicable interface to be discarded.	
Ľ	ip pim bsr-candidate	Sets the BSR.	
	ip pim deletion-delay-time	Changes the deletion delay time.	
	ip pim keep-alive-time	Changes the keep-alive time.	
	ip pim max-interface	Changes the maximum number of interfaces that can run IPv4 PIM.	
	ip pim mcache-limit	Specifies the maximum number of multicast forwarding entries.	
	ip pim message-interval	Changes the sending interval for join or prune messages.	
	ip pim mroute-limit	Specifies the maximum number of multicast routing information entries.	
	ip pim multiple-negative-cache	Specifies that the same (S, G) multiple negative cache entries can be created for each VLAN.	
	ip pim negative-cache-time	Changes the negative cache time.	
	ip pim query-interval	Changes the sending interval for Hello messages.	
	ip pim register-checksum	Changes the checksum range for PIM-Register messages.	
	ip pim register-probe-time	Specifies the register probe time.	
	ip pim rp-address	Sets the static rendezvous point.	
	ip pim rp-candidate	Sets a rendezvous point candidate.	
	ip pim rp-mapping-algorithm	Specifies the rendezvous point selection algorithm.	
	ip pim sparse-mode	Sets the IPv4 PIM-SM.	
	ip pim ssm	Sets the IPv4 PIM-SSM address.	
	ip pim vrf-gateway	Sets the PIM-SM VRF gateway.	

23. IPv6 Routing Protocol Overview

(1) 23.4.2 Load balancing specifications [Change]

Table 23-6 Maximum number of multipath routes has been changed. [Version 11.11 and later]

Before change:

Model	Maximum number of multipaths specified in switch configuration ^{#1}	Maximum number of multipaths handled by the switch ^{#2}	Maximum number of multipath routes the switch can handle ^{#2, #3}
AX3800S	1 to 4	4	1024 ^{#4}
	5 to 8	8	512
	9 to 16, or multipath disabled ^{#5}	16	256
AX3650S	1 to 2	2	1024#4
	3 to 4	4	512
	5 to 8	8	256
	9 to 16, or multipath disabled ^{#5}	16	128

Table 23-6 Maximum number of multipath routes

#3

The maximum number of multipath routes applies to the combined total of IPv4 and IPv6 routes.

#4

For a single path, the maximum number of paths is determined by the capacity limit for the number of table entries. For multipath, the values in the table apply.

After change:

Table 23-6 Maximum number of multipath routes

Model	Maximum number of multipaths specified in switch configuration ^{#1}	Maximum number of multipaths handled by the switch ^{#2}	Maximum number of multipath routes the switch can handle ^{#2, #3, #4}
AX3800S	1 to 4	4	1024
	5 to 8	8	512
	9 to 16, or multipath disabled ^{#5}	16	256
AX3650S	1 to 2	2	1024
	3 to 4	4	512
	5 to 8	8	256
	9 to 16, or multipath disabled ^{#5}	16	128

#3

The maximum number of multipath routes applies to the combined total of IPv4 and IPv6 routes.

Note that multipath routes that have the same next hop IP address and VRF are counted as the same multipath route.

#4

The maximum number of paths is determined by the capacity limit for the number of table entries. The number of accommodated multipath routes is determined by the capacity limit shown as the values in the table.

(2) 23.4.3 Notes on using load balancing [Addition]

A note has been added. [Version 11.11 and later]

Addition:

10. The same multipath route might be divided into multiple multipath routes when the route is changed. Also, when the multipath route is switched due to, for example, a failure, and if a new multipath route is registered, resources for the total number of new and old multipath routes will be used temporarily because the new multipath keeps the status of the old multipath route when being registered. Make sure to operate the Switch with the number of multipath routes at a level which ensures that the number of multipath routes does not exceed the capacity limit when switching the route.

(3) 23.6.1 Checking the maximum number of multipaths handled by the Switch [Change]

The section title has been changed. [Version 11.11 and later]

Before change:

23.6.1 Checking the maximum number of multipaths handled by the Switch

After change:

23.6.1 Checking the status of multipaths handled by the Switch

Figure 23-4 Checking the maximum number of multipaths handled by the Switch has been changed. [Version 11.11 and later]

Before change:

Figure 23-4 Checking the maximum number of multipaths handled by the Switch

```
>show system
    :
    :
    Device resources
    Current selected swrt_table_resource: 13switch-2
    Current selected swrt_multicast_table: On
    Current selected unicast multipath number: 8
    :
    :
```

After change:

>

Figure 23-4 Checking the status of multipaths handled by the Switch

```
>show system
    :
    :
    Device resources
    Current selected swrt_table_resource: 13switch-2
    Current selected swrt_multicast_table: On
    <u>Current selected unicast multipath number: 8
    :
    :
}
</u>
```

>

Multipath table entry: current number=1 , max number=512 MAC-Address table entry : current number=7 , max number=32768 :

4. Changes in Configuration Command Reference Vol. 1 (For Version 11.10) (AX38S-S004X-40)

4. Stack

(1) switch provision [Change]

Parameters has been changed. [Version 11.11 and later]

Change:

<switch no.>

Specifies a switch number.

1. Default value when this parameter is omitted:

This parameter cannot be omitted.

2. Range of values:

See Specifiable values for parameters.

{ 3830-44xw | 3830-44x4qw } [AX3800S]

3830-44xw

Sets the AX3830S-44XW model.

3830-44x4qw

Sets the AX3830S-44X4QW and AX3830S-44X4QS models.



1. Default value when this parameter is omitted:

This parameter cannot be omitted.

2. Range of values:

3830-44xw, 3830-44x4qw

18. Flow Detection Mode

(1) 18. Flow Detection Mode [Change]

The chapter title has been changed. [Version 11.11 and later]

Before change:

18. Flow Detection Mode

After change:

18. Flow Detection Mode s and Flow Operations

(2) flow action-change cos [Addition]

The description for *flow action-change cos* has been added. [Version 11.11 and later]

Addition:

flow action-change cos

Changes the QoS priority determination operation for the switch.

By setting this command, frames sent to the Switch become subject to priority determination.

Because this command is used to change the priority determination operation, make sure you set this command during the first stage of actual operation. We recommend that you do not make any changes during operation.

If you do not set this command or if you have deleted information, operation proceeds as described in *Default behavior*.

Syntax

To set information: flow action-change cos

To delete information:

no flow action-change cos

Input mode

(config)

Default behavior

The priority determination operation is not changed.

Only frames forwarded by the Switch become subject to priority determination.

Parameters

None

Impact on communication

None

When the change is applied

The change is applied immediately after setting values are changed.

Notes

1. To change the priority determination operation, you need to delete all QoS flow detection conditions and operation information entries applied to the interface.

Related commands

ip qos-flow-group ipv6 qos-flow-group mac qos-flow-group

28. GSRP

(1) virtual-mac-learning-interval [Addition]

The description for virtual-mac-learning-interval has been added. [Version 11.11 and later]

Addition:

virtual-mac-learning-interval

Sets the sending interval for frames for virtual MAC address learning to be sent when using Layer 3 redundancy switching functionality.

Syntax

To set or change information:

virtual-mac-learning-interval <seconds>

To delete information:

no virtual-mac-learning-interval

Input mode

(config-gsrp)

Parameters

< seconds >

- Specifies the sending interval (in seconds) for frames for virtual MAC address learning.
- 1. Default value when this parameter is omitted:
 - This parameter cannot be omitted.
- 2. Range of values:
 - 4 to 120

Default behavior

The sending interval for frames for virtual MAC address learning is 120 seconds.

Impact on communication

None

When the change is applied

The change is applied immediately after setting values are changed.

Notes

If the sending interval is set to a short interval by using this command, there might be VLAN ports that cannot send frames depending on the number of VLAN ports where the frames for virtual MAC address learning is sent. In such cases, set the sending interval to a longer interval.

Related commands

layer3-redundancy

41. Error Messages Displayed When Editing the Configuration

(1) 41.1.3 Stack information [Change]

Table 41-3 Stack functionality error messages has been changed. [Version 11.11 and later]

Change:

Table 41-3 Stack functionality error messages

	Message	Description
	Relations between stack enable and spanning-tree configuration are inconsistent.	stack enable and Spanning Tree Protocols cannot be set simultaneously.
Deleted	Relations between stack enable and storm-control are inconsistent.	stack enable and the storm control functionality cannot be set simultaneously.
	Relations between stack enable and swrt_multicast_table are inconsistent.	<pre>stack enable and swrt_multicast_table cannot be set simultaneously.</pre>
	Relations between switchport mode stack and web-authentication configuration are inconsistent.	switchport mode stack and Web authentication cannot be set on the same port.
Added	Relations between switchport mode stack and storm-control are inconsistent.	switchport mode stack and storm-control cannot be set on the same port.

(2) 41.1.11 VLAN information [Change]

Table 41-11 VLAN error messages has been changed.

Before change:

Table 41-11	VLAN error	messages
-------------	------------	----------

Message	Description
Relations between access-list and vlan mapping are inconsistent.	Tag translation cannot be set for the Ethernet interface because an access list that contains a VLAN ID as a detection condition is set on the outbound side. Tag translation cannot be set if an access list that contains a VLAN ID as a detection condition is applied to the outbound side. Delete the tag translation setting or specify an access list that does not contain a VLAN ID as a detection condition.
Relations between access-list and vlan mapping are inconsistent.	Tag translation cannot be set for the Ethernet interface because an access list is set on the outbound side. Tag translation cannot be set if an access list is applied to the outbound side. Delete the tag translation setting, or do not apply an access list to the outbound side.

After change:

Table 41-11 VLAN error messages

Message	Description
Relations between access-list and vlan mapping are inconsistent.	Tag translation cannot be set for the Ethernet interface because an access list that contains a VLAN ID as a detection condition is set on the outbound side of the Ethernet interface. Tag translation cannot be set if an access list that contains a VLAN ID as a detection condition is applied to the outbound side. Delete the tag translation setting or specify an access list that does not contain a VLAN ID as a detection condition. Tag translation cannot be set for the Ethernet interface because an access list is set on the outbound side of the VLAN interface. Tag translation cannot be set if an access list is applied to the outbound side. Delete the tag translation setting, or do not apply an access list to the outbound side.

(3) 41.1.16 Information about flow detection mode [Change] [Addition]

The section title has been changed. [Version 11.11 and later]

Before change:

41.1.16 Information about flow detection mode

After change:

41.1.16 Information about flow detection modes and flow operations

The title of *Table 41-16 Error messages related to flow detection mode* has been changed. [Version 11.11 and later]

Before change:

Table 41-16 Error messages related to flow detection mode

After change:

Table 41-16 Error messages related to flow detection modes and flow operations

In *Table 41-16 Error messages related to flow detection mode*, the following item has been added. [Version 11.11 and later]

Addition:

Table 41-16 Error messages related to flow detection modes and flow operations

Message	Description
Cannot change the flow action-change	The priority determination operation cannot be changed because QoS
cos.	flow detection conditions and operation information entries are applied
	to the interface.
	To change the priority determination operation, delete all QoS flow
	detection conditions and operation information entries applied to the
	interface.
	Note that you can use the show system operation command to check
	the number of QoS entries used by this configuration file.
(4) 41.1.17 Access list information [Change]

Table 41-17 Access list error messages has been changed.

Before change:

Table 41-	17 Access	list error	messages
	11 1 100000	1101 01101	mooougoo

Message	Description	
Relations between access-list and vlan mapping are inconsistent.	An access list that contains a VLAN ID as a detection condition cannot be set on the outbound side because tag translation is set for the Ethernet interface. Tag translation cannot be set if an access list that contains a VLAN ID as a detection condition is applied to the outbound side. Delete the tag translation setting or specify an access list that does not contain a VLAN ID as a detection condition.	
Relations between access-list and vlan mapping are inconsistent.	An access list cannot be set on the outbound side because tag translation is set for the Ethernet interface. Tag translation cannot be set if an access list is applied to the outbound side. Delete the tag translation setting, or do not apply an access list to the outbound side.	

After change:

Table 41-17 Access list error messages

Message	Description	
Relations between access-list and vlan mapping are inconsistent.	An access list that contains a VLAN ID as a detection condition cannot be set on the outbound side of the Ethernet interface because tag translation is set for the Ethernet interface. Tag translation cannot be set if an access list that contains a VLAN ID as a detection condition is applied to the outbound side. Delete the tag translation setting or specify an access list that does not contain a VLAN ID as a detection condition. An access list cannot be set on the outbound side of the VLAN interface because tag translation is set for the Ethernet interface. Tag translation cannot be set if an access list is applied to the outbound side. Delete the tag translation setting, or do not apply an access list to the outbound side.	

5. Changes in Configuration Command Reference Vol. 2 (For Version 11.10) (AX38S-S005X-40)

15. IPv4 Multicast Routing Protocol Information

(1) ip pim accept-bootstrap [Addition]

The description for *ip pim accept-bootstrap* has been added. [Version 11.11 and later]

Addition:

ip pim accept-bootstrap

Discards the received bootstrap message sent from the applicable interface, and suppresses the forwarding of the message to the local network.

Syntax

To set or change information: no ip pim accept-bootstrap

To delete information: ip pim accept-bootstrap

Input mode

(config-if)

Parameters

None

Default behavior

Forwards the received bootstrap message sent from the interface to the local network.

Impact on communication

None

When the change is applied

The change is applied immediately after the setting value is changed.

Notes

None

Related commands

ip pim sparse-mode

6. Changes in Operation Command Reference Vol. 1 (For Version 11.10) (AX38S-S006X-40)

5. Stack

(1) show switch [Change]

Table 5-3 Display items for the summary information about member switches has been changed. [Version 11.11 and later]

Change:

Item	Meaning	Displayed detailed information
•••		
Model	Member switch model	3830-44xw: AX3830S-44XW
		3830-44x4qw: AX3830S-44X4QW
	Added	or AX3830S-44X4QS
		3650-24t6xw: AX3650S-24T6XW
		3650-48t4xw: AX3650S-48T4XW
		3650-20s6xw: AX3650S-20S6XW

Table 5-3 Display items for the summary information about member switches

Table 5-4 Display items for detailed information about member switches has been changed. [Version 11.11 and later]

Change:

Table 5-4 Display items for detailed information about member switches

	ltem	Meaning	Displayed detailed information
Model		Member switch model	3830-44xw: AX3830S-44XW 3830-44x4qw: AX3830S-44X4QW or AX3830S-44X4QS 3650-24t6xw: AX3650S-24T6XW 3650-48t4xw: AX3650S-48T4XW 3650-20s6xw: AX3650S-20S6XW
Neighbor			
	Model	Model of the neighboring member switch	 3830-44xw: AX3830S-44XW 3830-44x4qw: AX3830S-44X4QW or AX3830S-44X4QS 3650-24t6xw: AX3650S-24T6XW 3650-48t4xw: AX3650S-24T6XW 3650-20s6xw: AX3650S-20S6XW -: Unknown

9. Checking Software Versions and Device Statuses

(1) show version [Change]

Table 9-1 Information displayed by the show version command has been changed. [Version 11.11 and later]

Change:

Table 9-1 Information displayed by the show version command

Item	Display format	Meaning
Model		
	AX3830S-44X4	AX3830S-44X4QW (L3 switch)
	QW	Redundant power model
		• Gigabit Ethernet x 4 (10/100/1000BASE-T)
		• 10 gigabit Ethernet x 44 (10GBASE-R (SFP+) or 1000BASE-X (SFP))
		• 40 gigabit Ethernet x 4 (40GBASE-R (QSFP+))
ſ	AX3830S-44X4	AX3830S-44X4QS (L3 switch)
	QS	Redundant power model
Added {		• Gigabit Ethernet x 4 (10/100/1000BASE-T)
		• 10 gigabit Ethernet x 44 (10GBASE-R (SFP+) or 1000BASE-X (SFP))
l		• 40 gigabit Ethernet x 4 (40GBASE-R (QSFP+))
S/W ^{#1}	OS-L3SA-A/OS	L3S advanced software with OSPF, BGP, VRF, and policy-based routing
	-L3SA	
	Ver.vv.v ^{#2}	
	OS-L3SL-A/OS	L3S light software without OSPF, BGP, VRF, or policy-based routing
	-L3SL Ver.vv.v	Los light software without OSTT, DOT, VRT, of poney-based routing
H/W ^{#3}		
Main board		
	AX-3830-44X4	AX3830S-44X4QW (L3 switch)
	QW-L	• Redundant power model
	[<i>ssssssss</i>]	• Gigabit Ethernet x 4 (10/100/1000BASE-T)
		• 10 gigabit Ethernet x 44 (10GBASE-R (SFP+) or 1000BASE-X (SFP))
		• 40 gigabit Ethernet x 4 (40GBASE-R (QSFP+))
_		L3S light software (with SSH)
(AX-3830-44X4	AX3830S-44X4QS (L3 switch)
	QS-A	Redundant power model
ļ	[<i>ssssssss</i>]	• Gigabit Ethernet x 4 (10/100/1000BASE-T)
Added		• 10 gigabit Ethernet x 44 (10GBASE-R (SFP+) or 1000BASE-X (SFP))
		• 40 gigabit Ethernet x 4 (40GBASE-R (QSFP+))
l		• L3S advanced software (with SSH)
ſ	AX-3830-44X4	AX3830S-44X4QS (L3 switch)
	QS-L	Redundant power model
J	[ssssssss]	• Gigabit Ethernet x 4 (10/100/1000BASE-T)
Added		• 10 gigabit Ethernet x 44 (10GBASE-R (SFP+) or 1000BASE-X (SFP))
Autu		• 40 gigabit Ethernet x 4 (40GBASE-R (QSFP+))
l		• L3S light software (with SSH)
Power slot		• • •
PS-M ^{#4}		
	AX-F2430-PSD	DC power supply for AX3830S series switches.
		Designated for rear-side air intake and front-side air exhaust.
	03R[ssss cccl	
ſ	03R[ssssssss]	8
Added	AX-F2430-PSA	AC power supply for AX3650S series switches.
Added		8

Item	Display format	Meaning
FAN-M ^{#4}	AX-F2430-FAN	Fan unit common to AX3650S series switches.
	03[<i>ssssssss</i>]	Designated for front-side air intake and rear-side air exhaust.
	AX-F2430-FAN	Fan unit for AX3830S series switches.
-	04[<i>ssssssss</i>]	Designated for front-side air intake and rear-side air exhaust.
Added	AX-F2430-FAN	
Audeu	04S[<i>ssssssss</i>]	
	AX-F2430-FAN	Fan unit for AX3830S series switches.
	04R[ssssssss]	Designated for rear-side air intake and front-side air exhaust.

(2) show system [Change]

Figure 9-4 Example showing the result of executing the show system command [AX3650S] has been changed.

Before change:

<omitted>

T = 1	
- H I	lasn
	LOIDII

Flash :				
	user area	config area	dump area	area total
used	114,175kB	74kB	3,306kB	117,555kB
free	91,381kB	120,597kB	62,084kB	274,062kB
total	205,556kB	120,671kB	65,390kB	391,617kB

<omitted>

After change:

<omitted>

Flash :				
	user area	config area	dump area	area total
used	121,161kB	289kB	0kB	121,450kB
free	14,619kB	75,117kB	65,390kB	155,126kB
total	135,780kB	75,406kB	65,390kB	276,576kB
<omitted></omitted>				

Figure 9-5 Example of displaying resource Information [AX3800S] has been changed. [Version 11.11 and later]

Change:

>

Figure 9-5 Example of displaying resource Information [AX3800S]

```
> show system
Date 20XX/3/1 06:35:27 JST
System: AX3830S-44XW, OS-L3SA Ver. 11.11 ←
                                          Corrected
Node : Name=System Name
:
:
   Device resources
       Current selected swrt_table_resource: 13switch-2
       Current selected swrt_multicast_table: On
       Current selected unicast multipath number: 8
       IP routing entry :
           Unicast : current number=6 , max number=8192
           Multicast : current number=0 , max number=256
           ARP : current number=1 , max number=5120
       IPv6 routing entry :
           Unicast : current number=1 , max number=2048
           Multicast : current number=0 , max number=128
           NDP : current number=0 , max number=1024
       MAC-Address table entry : current number=7 , max number=131072
       System Layer2 Table Mode : auto (mode=1)
       Flow detection mode : layer3-1
         Used resources for filter inbound(Used/Max)
                  MAC
                           IPv4
                                   IPv6
                0/ 512
                       30/ 512
                                     n/a
         Used resources for QoS(Used/Max)
                           IPv4
                  MAC
                                  ТРvб
                0/ 128
                       26/ 128
                                     n/a
         Used resources for UPC(Used/Max)
                                IРvб
                  MAC
                           IPv4
                0/ 128
                        26/ 128
                                     n/a
         Used resources for TCP/UDP port detection pattern
           Resources(Used/Max): 3/32
             Source Port
                            :
               10-20
                                 filter/ -
             Destination Port
               1 - 2
                             :
                                      -/QoS
                                filter/QoS
               65534-65535 :
       Flow detection out mode : layer3-1-out
         Used resources for filter outbound(Used/Max)
                  MAC
                           IPv4
                                    IРvб
                  n/a
                         0/1024
                                      n/a
       Flow action change
                                          Added
                             : enable
           cos
```

Figure 9-6 Example of displaying resource Information [AX3650S] has been changed. [Version 11.11 and later]

Change:

Figure 9-6 Example of displaying resource Information [AX3650S]

```
> show system
Date 20XX/3/1 06:35:27 JST
System: AX3650S-48T4XW, OS-L3SA Ver. 11.11 ← Corrected
Node : Name=System Name
:
:
   Device resources
       Current selected swrt_table_resource: 13switch-2
       Current selected swrt_multicast_table: On
       Current selected unicast multipath number: 8
       IP routing entry :
           Unicast : current number=6 , max number=8192
           Multicast : current number=0 , max number=1024
           ARP : current number=1 , max number=2048
       IPv6 routing entry :
           Unicast : current number=1 , max number=4096
           Multicast : current number=0 , max number=256
           NDP : current number=0 , max number=2048
       Multipath table entry : current number=1 , max number=256 ← Added
       MAC-Address table entry : current number=7 , max number=32768
       System Layer2 Table Mode : auto (mode=1)
       Flow detection mode : layer3-1
         Used resources for filter inbound(Used/Max)
                                   MAC
                                           IPv4
                                                    IРvб
                             :
           Port 0/ 1-24
                                0/512
                                          30/512
                                                     n/a
           Port 0/25-48
                             : 0/512 24/512
                                                     n/a
           Port 0/49-52
                             :
                                0/512
                                        24/512
                                                     n/a
                              :
                                  0/512
                                           2/512
           VLAN
                                                     n/a
         Used resources for QoS(Used/Max)
                                   MAC
                                           IPv4
                                                    IРvб
           Port 0/ 1-52
                             :
                                  0/256
                                          26/256
                                                     n/a
                                  0/256
                              :
           VLAN
                                           2/256
                                                     n/a
         Used resources for UPC(Used/Max)
                                                    IPv6
                                   MAC
                                           IPv4
                             :
           Port 0/ 1-52
                                 0/256
                                          26/256
                                                     n/a
                             : 0/256
           VLAN
                                          2/256
                                                     n/a
         Used resources for TCP/UDP port detection pattern
           Resources(Used/Max): 4/64
             Source Port
               10-20
                              :
                                  filter/ -
             Destination Port
               1-2
                              :
                                       -/QoS
               65534-65535 :
                                 filter/QoS
       Flow detection out mode : layer3-3-out
         Used resources for filter outbound(Used/Max)
                                    MAC
                                          IPv4
                                                    IPv6
           Port 0/ 1-52
                              :
                                    n/a
                                            n/a
                                                     n/a
                              : 256/256
                                        256/256 256/256
           VLAN
       Flow action change
                                             Added
                             : enable
           cos
>
```

Table 9-5 Information displayed by the show system command has been changed. [Version 11.11 and later]

Change:

Added

Item	Displayed information	Displayed detailed information
IPv6 routing entry NDP	Number of NDP entries set on	current number: Number of NDP entries
	the hardware	currently set on the hardware.
		max number: Maximum number of NDP
		entries that can be set on the hardware.
		Note: A hyphen (-) is displayed if the status of
		the main board is Fault.
Multipath table entry	Number of multipath table	current number: Number of multipath
	entries set on the hardware	table entries currently set on the hardware.
		max number: Maximum number of
		multipath table entries that can be set on the
		hardware.
		Note: A hyphen (-) is displayed if the status of
		the main board is Fault.
MAC-Address table entry	Number of MAC address table	current number: Number of MAC
WAC-Address table entry	entries set on the hardware	
	entries set on the hardware	address table entries currently set on the
		hardware.
		max number: Maximum number of MAC
		address table entries that can be set on the
		hardware.
		Note: A hyphen (-) is displayed if the status of
		the main board is Fault.
System Layer2 Table Mode	Search method for the Layer 2	<pre>auto(mode=x): Mode selected</pre>
	hardware table	automatically.
		mode= x: Value set by the system
		12-table mode configuration command
		If the mode is not set by using the system
		12-table mode configuration command, 0
		is displayed for x .
		(For details, see 8. <i>Device Management</i> in the
		manual Configuration Command Reference
		Vol. 1 For Version 11.10.)
Flow detection mode	Passiving side flow detection	, ,
FIOW detection mode	Receiving-side flow detection	layer3-1
	mode for the filters and QoS	layer3-2
	functionality	layer3-5
		layer3-6
		layer3-dhcp-1
		(For details, see 18. Flow Detection Modes
		and Flow Operations in the manual
		Configuration Command Reference Vol. 1
		For Version 11.10.)
Flow detection out mode	Sending-side flow detection	For AX3800S series switches:
	mode for filtering	layer3-1-out
		layer3-2-out
		For AX3650S series switches:
		layer3-1-out

	Item	Displayed information	Displayed detailed information
			layer3-3-out
			(For details, see 18. Flow Detection Modes
			and Flow Operations in the manual
			Configuration Command Reference Vol. 1
			<i>For Version 11.10.</i>)
ſ	Flow action change	Status of the functionality for	Status of the functionality for changing which
		changing which frames are	frames are subject to priority determination.
Added		subject to priority	(If this functionality is enabled, enable is
		determination	displayed. If this functionality is disabled,
			nothing is displayed.)
C			cos: Priority

11. Checking Internal Memory and Memory Cards

(1) show flash [Change]

Example has been changed.

Before change:

- <omitted>
- Flash :

		user area	config area	dump area	area total
	used	114,175kB	74kB	3,306kB	117,555kB
	free	91,381kB	120,597kB	62,084kB	274,062kB
	total	205,556kB	120,671kB	65,390kB	391,617kB
>					

After change:

<omitted>

Flash :

		user area	config area	dump area	area total
	used	121,161kB	289kB	0kB	121,450kB
	free	14,619kB	75,117kB	65,390kB	155,126kB
	total	135,780kB	75,406kB	65,390kB	276,576kB
>					

16. Ethernet

(1) show interfaces (40GBASE-R) [AX3800S] [Change]

Table 16-24 Summary information about 40GBASE-R interfaces has been changed. [Version 11.11 and later]

Change:

Item	Displayed information				
	Detailed information	Meaning			
<line type=""></line>	40GBASE-SR4 full	40GBASE-SR4			
Added —	40GBASE-LR4 full	40GBASE-LR4			
	40GBASE-CU35CM full(auto)	40GBASE-CR4 (35cm)			
		(Line type determined by auto-negotiation.)			
	40GBASE-CU1M full(auto)	40GBASE-CR4 (1m)			
		(Line type determined by auto-negotiation.)			
	40GBASE-CU3M full(auto)	40GBASE-CR4 (3m)			
		(Line type determined by auto-negotiation.)			
	40GBASE-CU5M full(auto)	40GBASE-CR4 (5m)			
		(Line type determined by auto-negotiation.)			
	-	The line type is unknown.			
		A hyphen is displayed in the following cases:			
		• A port is in the initialize status.			
		• A port is in the fault status.			
		• The transceiver status is not connect.			
<mac address=""></mac>	MAC address of the port	•			

Table 16-24 Summary information about 40GBASE-R interfaces

(2) show port [Change]

Table 16-28 Explanation of the display of the link information list for ports has been changed. [Version 11.11 and later]

Change:

Item	Meaning	Displayed information
•••		
Speed	Line speed	10BASE-T: 10BASE-T
		100BASE-TX: 100BASE-TX
		1000BASE-T: 1000BASE-T
		100BASE-FX: 100BASE-FX [AX3650S]
		1000BASE-LX: 1000BASE-LX
		1000BASE-SX: 1000BASE-SX
		1000BASE-SX2: 1000BASE-SX2 [AX3650S]
		1000BASE-LH: 1000BASE-LH
		1000BASE-BX10-D: 1000BASE-BX10-D
		1000BASE-BX10-U: 1000BASE-BX10-U
		1000BASE-BX40-D: 1000BASE-BX40-D
		1000BASE-BX40-U: 1000BASE-BX40-U
		1000BASE-LHB: 1000BASE-LHB
		10GBASE-SR: 10GBASE-SR
		10GBASE-LR: 10GBASE-LR
		10GBASE-ER: 10GBASE-ER
		10GBASE-CU30CM: 10GBASE-CU (30cm)
		10GBASE-CU1M: 10GBASE-CU (1m)
		10GBASE-CU3M: 10GBASE-CU (3m)
		10GBASE-CU5M: 10GBASE-CU (5m)
		40GBASE-SR4: 40GBASE-SR4 [AX3800S]
	Added 🗕	40GBASE-LR4: 40GBASE-LR4 [AX3800S]
		40GBASE-CU35CM: 40GBASE-CR4 (35cm) [AX3800S]
		40GBASE-CU1M: 40GBASE-CR4 (1m) [AX3800S]
		40GBASE-CU3M: 40GBASE-CR4 (3m) [AX3800S]
		40GBASE-CU5M: 40GBASE-CR4 (5m) [AX3800S]
		-: The speed is unknown (If auto-negotiation is enabled for a
		10BASE-T/100BASE-TX/1000BASE-T port and Status is
		neither up nor test, if Status is init or fault, or if the
		transceiver status is not connect, a hyphen (-) is displayed.)

Table 16-28 Explanation of the display of the link information list for ports

Table 16-32 Display of the transceiver information list (QSFP+ port) has been changed. [Version 11.11 and later]

Change:

Item	Meaning	Displayed information	
Port Counts	Number of target ports	-	
Port	Port	NIF number/port number	
Status	Status of the transceiver	connect: A transceiver is installed.	
		notconnect: Not installed	
		not support: An unsupported transceiver is installed.	
		-: The status of the transceiver is unknown (- is displayed if	
		the port status is init or fault).	
Туре	Type of transceiver	QSFP+: QSFP+	
Speed	Line speed	40GBASE-SR4: 40GBASE-SR4	
~	Added	40GBASE-LR4: 40GBASE-LR4	
	Tudeu P	40GBASE-CU35CM: 40GBASE-CR4 (35cm)	
		40GBASE-CU1M: 40GBASE-CR4 (1m)	
		40GBASE-CU3M: 40GBASE-CR4 (3m)	
		40GBASE-CU5M: 40GBASE-CR4 (5m)	
		-: Unknown line speed (- is displayed if the port status is	
		init or fault, or if the transceiver state is not	
		connect).	
Vendor name	Vendor name	Displays the vendor's name. ^{#1#2}	
Vendor SN	Vendor serial number	Displays the serial number added by the vendor. ^{#1#2}	
Vendor PN	Vendor part number	Displays the part number added by the vendor. ^{#1#2}	
Vendor rev	Vendor revision	Displays a part number revision added by the vendor. ^{#1#2}	
Tx1 power	Lane 1 sending optical	Displays the sending optical power of Lane 1 in dBm. ^{#1#2#3#4}	
	power		
Rx1 power	Lane 1 receiving optical power	Displays the receiving optical power of Lane 1 in dBm. ^{#1#2#3#4}	
Tx2 power	Lane 2 sending optical	Displays the sending optical power of Lane 2 in dBm.#1#2#3#4	
	power		
Rx2 power	Lane 2 receiving optical	Displays the receiving optical power of Lane 2 in	
-	power	dBm. ^{#1#2#3#4}	
Tx3 power	Lane 3 sending optical	Displays the sending optical power of Lane 3 in dBm. ^{#1#2#3#4}	
	power		
Rx3 power	Lane 3 receiving optical	Displays the receiving optical power of Lane 3 in dBm. ^{#1#2#3#4}	
	power		
Tx4 power	Lane 4 sending optical	Displays the sending optical power of Lane 4 in dBm. ^{#1#2#3#4}	
	power		
Rx4 power	Lane 4 receiving optical	Displays the receiving optical power of Lane 4 in dBm. ^{#1#2#3#4}	
	power	dBm. ^{#1#2#3#4}	

Table 16-32 Display of the transceiver information list (QSFP+ port)

(3) no test interfaces [Change]

Table 16-41 Items displayed as line test results has been changed. [Version 11.11 and later]

Change:

Item	Meaning	Presumed cause	Measures
Interface type	Line type 10BASE-T 100BASE-TX 1000BASE-TX 1000BASE-FX [AX3650S] 1000BASE-LX 1000BASE-SX 1000BASE-SX2 [AX3650S] 1000BASE-SX2 [AX3650S] 1000BASE-SX2 [AX3650S] 1000BASE-BX10-D 1000BASE-BX10-D 1000BASE-BX40-D 1000BASE-BX40-D 1000BASE-BX40-U 1000BASE-LHB 10GBASE-LHB 10GBASE-LHB 10GBASE-LR 10GBASE-LR 10GBASE-CU30CM 10GBASE-CU3M 10GBASE-CU3M 40GBASE-CU5M 40GBASE-CU3F 40GBASE-CU3F 40GBASE-CU3M [AX3800S] 40GBASE-CU3M [AX3800S]		
Test count	• Number of times a test was conducted		
Send-OK	Number of times data was sent normally		

Table 16-41 Items displayed as line test results

30. GSRP

(1) show gsrp [Change]

>

Figure 30-1 Example of displaying GSRP summary information has been changed. [Version 11.11 and later]

Change:

Figure 30-1 Example of displaying GSRP summary information

```
> show gsrp
         Date 20XX/07/14 12:00:00 UTC
         GSRP ID: 3
          Local MAC Address : 0012.e2a8.2527
Neighbor MAC Address : 0012.e2a8.2505
          Total VLAN Group Counts : 3
          Layer 3 Redundancy : On
         Virtual MAC Learning: Interval 120 (Output Rate 30pps)VLAN Port Counts: Configuration15, Capacity 36
Added
                                                              15, Capacity 3600
                                Local State
          VLAN Group ID
                                                          Neighbor State
                                                          Master
          1
                                 Backup
          2
                                 (disable)
          8
                                 Master
                                                          _
```



Table 30-1 Items displayed for GSRP summary information has been changed. [Version 11.11 and later]

Change:

Item	Meaning	Displayed information
•••		
Layer 3 Redundancy	Layer 3 redundancy switching	Off: Not set. On: The Layer 3 redundancy switching functionali is enabled.
Virtual MAC	Number of frames for virtual	
Learning	MAC address learning	
Interval	Sending interval	4-120 (seconds)
(Output Rate)	Sending rate (packet/s)	Displays the current sending rate for frames for virtual MAC address learning.
		This item is not displayed when Layer 3 redundand switching is not used in the configuration.
VLAN Port Counts	Number of sending ports for frames for virtual MAC address learning	This item is not displayed when Layer 3 redundand switching is not used in the configuration.
Configuration	Number of target ports where frames for virtual MAC address learning are sent to	Displays the number of VLAN ports [#] where the frames for virtual MAC address learning are sent t If this value is greater than the number of ports enabled for sending frames for virtual MAC addre learning, it means that the differentials of frames for virtual MAC address learning were not sent.
Capacity	Number of ports enabled for sending frames for virtual MAC address learning	Displays the number of VLAN ports that can be see in the sending interval for frames for virtual MAC address learning.
VLAN Group ID	VLAN Group ID	1-64

Table 30-1 Items displayed for GSRP summary information

Added

Added Added # Total number of member ports among VLAN ports that belong to the master VLAN group. Each channel group is counted as one port.

Figure 30-2 Example of displaying GSRP information when a VLAN group ID is specified has been changed. [Version 11.11 and later]

Change:

Figure 30-2 Example of displaying GSRP information when a VLAN group ID is specified

	<pre>> show gsrp 3 vlan-group Date 20XX/07/14 12:00:00</pre>		
Added	VLAN Port Counts	: 0 : 3 : C : I	0012.e2a8.2505 3
	Member Port Active Port Last Transition		4

<omitted>

Table 30-2 Items displayed for GSRP information when a VLAN group ID is specified has been changed. [Version 11.11 and later]

Change:

Table 30-2 Items displayed for GSRP information when a VLAN group ID is specified

	Item	Meaning	Displayed information
	Layer 3 Redundancy	Layer 3 redundancy switching	 Off: Not set. On: The Layer 3 redundancy switching functionality is enabled.
	Virtual MAC Learning	Number of frames for virtual MAC address learning	
(Interval	Sending interval	4-120 (seconds)
	(Output Rate)	Sending rate (packet/s)	Displays the current sending rate for frames for virtual MAC address learning. This item is not displayed when Layer 3 redundancy switching is not used in the
	VLAN Port Counts	Number of sending ports for frames for virtual MAC address learning	configuration. This item is not displayed when Layer 3 redundancy switching is not used in the configuration.
۲ ا	Configuration	Number of target ports where frames for virtual MAC address learning are sent to	Displays the number of VLAN ports [#] where the frames for virtual MAC address learning are sent to. If this value is greater than the number of ports enabled for sending frames for virtual MAC address learning, it means that the differentials of frames for virtual MAC address learning were not sent.
	Capacity	Number of ports enabled for sending frames for virtual MAC address learning	Displays the number of VLAN ports that can be sent in the sending interval for frames for virtual MAC address learning.
`	VLAN Group ID	VLAN group ID	1-64
	VLAN ID	VLAN ID	1-4094 When used in combination with Ring Protocol, VLANs that do not belong to the VLAN group are not included.
	Member Port	Ports belonging to a VLAN which is configured for a VLAN group	 - is displayed if no active ports belong to a VLAN group, or if the VLAN group is disabled. A channel group is expanded to a list of aggregated ports and then displayed.
	Active Port	Active port	- is displayed if no active ports belong to a VLAN group, or if the VLAN group is disabled. A channel group is expanded to a list of aggregated ports and then displayed.
	Last Transition	Last state transition time	yyyy/mm/dd hh:mm:ss year/month/day hour:minute:second The state transition is shown within parentheses. - is displayed if no state transitions have been performed, or if the VLAN group is disabled.
	 Priority	 Priority information	
	Priority	Priority information	0-255

Item	Meaning	Displayed information	
Active Ports	Number of active ports	0 to the maximum number of ports per switch. Each channel group is counted as one port. - is displayed if the VLAN group is disabled. Note, however, that a ring port is not counted as an extine port	Corrected
Up Ports	Number of enabled ports belonging to a VLAN that is configured to be in a VLAN group	active port. 0 to the maximum number of ports per switch. Each channel group is counted as one port. - is displayed if the VLAN group is disabled. (- is displayed for information about the partner switch.)	Corrected

Figure 30-3 Example of displaying detailed GSRP information has been changed. [Version 11.11 and later]

Change:

Figure 30-3 Example of displaying detailed GSRP information

	<pre>> show gsrp detail Date 20XX/11/07 12:0</pre>	0:00	רט	C		
Added	GSRP ID: 3 Local MAC Address Neighbor MAC Address Total VLAN Group Co GSRP VLAN ID Direct Port Limit Control GSRP Exception Port No Neighbor To Mast Backup Lock Port Up Delay Last Flush Receive Forced Shift Time Layer 3 Redundancy Virtual MAC Learnin VLAN Port Counts Virtual Link ID	s unts er Time g		0012.e2a8.250 3 105 0/10-11 Off 0/1-5 manual disable 0 - - On Interval 120 Configuration	(Outpu n 15	
	Selection Pattern VLAN Group ID 1 2	r	: : p bl	1 ports-priorit State	-	Neighbor 5 - 1 ports-priority-mac or State

Table 30-3 Items displayed for detailed GSRP information has been changed. [Version 11.11 and later]

Change:

	Item	Meaning	Displayed information
(Layer 3 Redundancy	 Layer 3 redundancy switching	 Off: Not set. On: The Layer 3 redundancy switching functionality is enabled.
	Virtual MAC Learning	Number of frames for virtual MAC address learning	
	Interval	Sending interval	4-120 (seconds)
	(Output Rate)	Sending rate (packet/s)	Displays the current sending rate for frames for virtual MAC address learning. This item is not displayed when Layer 3 redundancy switching is not used in the configuration.
K	VLAN Port Counts	Number of sending ports for frames for virtual MAC address learning	This item is not displayed when Layer 3 redundancy switching is not used in the configuration.
	Configuration	Number of target ports where frames for virtual MAC address learning are sent to	Displays the number of VLAN ports [#] where the frames for virtual MAC address learning are sent to. If this value is greater than the number of ports enabled for sending frames for virtual MAC address learning, it means that the differentials of frames for virtual MAC address learning were not sent.
l	Capacity	Number of ports enabled for sending frames for virtual MAC address learning	Displays the number of VLAN ports that can be sent in the sending interval for frames for virtual MAC address learning.
	Virtual Link ID	Virtual link ID	1-250 - is displayed if no virtual link IDs are set. Information enclosed in parentheses indicates the virtual link VLAN ID.

Table 30-3 Items displayed for detailed GSRP information

Table 30-4 Items displayed for GSRP information when a port is specified has been changed. [Version 11.11 and later]

Change:

Item	Meaning	Displayed information
TxFrame	Number of sent GSRP	0-4294967295
	Advertise frames (statistics)	The same value is displayed for all ports in the same channel group.
RxFrame	Number of received GSRP Advertise frames (statistics)	0-4294967295 The same value is displayed for all ports in the Corrected same channel group.
Discard Frame	Number of GSRP Advertise frames discarded when they are received (statistics)	0-262140 (The maximum value is 65535 (the maximum number by reason why the frame is discarded) times 4 (the number of components).) The same value is displayed for all ports in the same channel group.

Table 30-4 Items displayed for GSRP information when a port is specified

Table 30-5 Items displayed for GSRP information when a port is specified has been changed. [Version 11.11 and later]

Change:

Table 30-5 Items displayed for GSRP information when a port is specified

Item	Meaning	Displayed information
TxFrame	Number of sent GSRP	0-4294967295
	Advertise frames	The same value is displayed for all ports in the
	(statistics)	same channel group.
RxFrame	Number of received GSRP	0-4294967295
	Advertise frames	The same value is displayed for all ports in the
	(statistics)	same channel group.
Discard Frame	Number of GSRP Advertise	0-262140
	frames discarded when they	(The maximum value is 65535 (the maximum
	are received	number by reason why the frame is discarded)
	(statistics)	times 4 (the number of components).)
		The same value is displayed for all ports in the
		same channel group.

7. Changes in Operation Command Reference Vol. 2 (For Version 11.10) (AX38S-S007X-40)

7. IPv4 Multicast Routing Protocols

(1) show ip pim interface [Change]

Figure 7-3 Displaying the status of a PIM-SM or PIM-SSM interface has been changed. [Version 11.11 and later]

Change:

> show ip pim interface Date 20XX/12/10 15:08:10 UTC Address Interface Component Vif Nbr Hello DR Intvl Address Count 192.10.10.1 VLAN0011 This system PIM-SM 1 4 30 R Corrected 192.10.20.1 VLAN0012 PIM-SM 9 10 30 192.10.20.2 в 192.10.30.1 VLAN0014 PIM-SM 10 11 30 This system > show ip pim interface detail Date 20XX/12/10 15:09:10 UTC Address Interface Component Vif Nbr Hello DR GenID Intvl Address Count 192.10.10.1 VLAN0011 PTM-SM 1 30 3503c645 4 This system B Corrected 192.10.20.1 VLAN0012 PIM-SM 9 10 30 42278152 192.10.20.2 В 192.10.30.1 VLAN0014 PIM-SM 10 11 30 29ba460b This system > show ip pim vrf 2 interface detail Date 20XX/12/10 15:10:10 UTC VRF: 2 Address Interface Component Vif Nbr Hello GenID DR Count Intvl Address 192.10.50.1 VLAN0015 192.10.60.1 VLAN0016 PIM-SM 12 4 30 3503c645 This system В Corrected PIM-SM 13 10 30 42278152 192.10.60.2 В 192.10.70.1 VLAN0017 PIM-SM 14 11 30 29ba460b This system

Figure 7-3 Displaying the status of a PIM-SM or PIM-SSM interface

Table 7-5 Items displayed by the show ip pim interface command has been changed. [Version 11.11 and later]

Change:

Added

Item	Meaning	Displayed information
DR Address	DR address	If the specified interface is down, - is displayed.
		If the Switch is the DR, This system is
		displayed.
Notice	Warning information	B: The PIM-Bootstrap message was discarded
		because the no ip pim accept-bootstrap
		configuration command was specified.
		From the time an event occurred until
		PIM-Bootstrap message retention time
		(Bootstrap-Timeout) passes, this item is displayed
		when the command is executed.

Table 7-5 Items displayed by the show ip pim interface command

9. IPv6, NDP, and ICMPv6

(1) traceroute ipv6 [Change]

The numeric parameter has been changed.

Before change:

numeric

Displays the gateway address by the IPv6 address alone, not by the host name and IPv6 address.

Operation when this parameter is omitted:

Displays the name converted from the host IPv6 address.

After change:

numeric

Displays the gateway address by the IPv6 address alone, not by the host name.

Operation when this parameter is omitted:

Displays the name converted from the host IPv6 address.

8. Changes in Message and Log Reference (For Version 11.10) (AX38S-S008X-40)

3. Device Failure and Event Information

(1) 3.4.4 Event location = VLAN (GSRP) [Addition]

In *Table 3-7 Device failure and event information when the event location is VLAN (GSRP)*, the following item has been added. [Version 11.11 and later]

Addition:

#	Event	Event	Message	Added	Message text
	level	location	ID	info	
				Highest 4	
				digits	
				Descri	ption
18	E4	VLAN	20130020	0700	GSRP : Virtual MAC address learning frame cannot
					be sent in the port where capacity was exceeded.
	The number	of VLAN por	ts that can send	the frames for	or virtual MAC address learning exceeded the capacity
	limit. Contro	l frames canno	ot be sent from V	VLAN ports w	hose capacity limit is exceeded.
	[Explanation	of message va	ariables]		
	None.				
	[Action]				
	Decrease the	number of ser	nding ports for fi	rames for virtu	al MAC address learning. Alternatively, set the sending
	interval to a	onger interval			

Table 3-7 Device failure and event information when the event location is VLAN (GSRP)

(2) 3.7.1 Event location = PS [Addition]

In *Table 3-15 Device failure and event information when the event location is PS*, the following item has been added. [Version 11.11 and later]

Addition:

#	Event level	Event location	Message ID	Added info	Message text
	10101	location		Highest 4	
				digits	
				Descri	ption
10	E8	PS	0000009	2200	Combination of power supply units is incorrect.
	The combina	tion of mount	ed power supply	units is incor	rect.
			1 11		orrect. Remove PS1 or PS2. supply units in the correct combination.
11	R8	PS	00000009	2200	Incorrect combination of power supply units was recovered.
	Recovery wa	s made from t	he combination	of power supp	ly units being incorrect.
	[Explanation None. [Action]	of message va	ariables]		

9. Changes in MIB Reference (For Version 11.10) (AX38S-S009X-40)

3. Private MIBs

(1) 3.20 ax3830sSwitch group (System device model information MIB) [Change]

Table 3-75 ax3830sSwitch group implementation specifications has been changed. [Version 11.11 and later]

Change:

#	Object identifier	SYNTAX	Access	Implementation specifications	Supp ort?
1	ax3830sModelType {ax3830sSwitch 1}	INTEGER	R/O	System device model information (numeric value): AX3830S-44XW (1700) AX3830S-44X4QW (1701) AX3830S-44X4QS (1702) Added	Y

Table 3-75 ax3830sSwitch group implementation specifications

(2) 3.21.1 ax3830sChassis group implementation specifications (Chassis information) [Change]

Table 3-76 ax3830sChassis group implementation specifications (chassis information) has been changed. [Version 11.11 and later]

Change:

Table 3-76 ax3830sChassis group implementation specifications (chassis information)

#	Object identifier	SYNTAX	Access	Implementation specifications	Supp ort?
5	ax3830sChassisType {ax3830sChassisEntry 2}	INTEGER	R/O	Chassis type: AX3830S-44XW (1700) AX3830S-44X4QW (1701) AX3830S-44X4QS (1702)	Y

(3) 3.21.6 ax3830sPhysLine group implementation specifications (Interface information) [Change]

Table 3-81 ax3830sPhysLine group implementation specifications (interface information) has been changed. [Version 11.11 and later]

Change:

Table 2.01 av2020aDb	valina araun impla	mentation specifications	(interface information)
	ivsline aroud implei	neniation specifications	unienace information
			(

#	Object identifier	SYNTAX	Access	Implementation specifications	Supp ort?
4	ax3830sPhysLineConnector Type {ax3830sPhysLineEntry 2}	INTEGER	R/O	Type of interface on the interchangeable transceiver: - other(1) type1000BASE-LX (301) - type1000BASE-SX (302) - type1000BASE-LH (303) - type1000BASE-BX10-D (304) - type1000BASE-BX10-U (305) - type1000BASE-BX40-D (306) - type1000BASE-BX40-D (306) - type1000BASE-BX40-U (307) - type1000BASE-BX40-U (307) - type1000BASE-BX40-U (307) - type1000BASE-LHB (310) - type100BASE-SR (401) - type10GBASE-SR (401) - type10GBASE-LR (402) - type10GBASE-CU1M (405) - type10GBASE-CU3M (406) - type10GBASE-CU3M (406) - type10GBASE-CU3M (407) - type10GBASE-CU3M (406) - type40GBASE-CU3M (502) - type40GBASE-CU3M (503) - type40GBASE-CU3M (504) - type40GBASE-CU5M (505) - type40GBASE-LR4 (506)	Y
				 Returns other (1) if either of the following conditions is met: The transceiver type is unknown or the transceiver is not interchangeable The physical line is in the initializing or the failure status 	