AX2200S / AX1250S / AX1240S Software Manual

MIB Reference

For Version 2.4

AX1240S-S006X-60

■ **Relevant products**

This manual applies to the models of the AX2200S, AX1250S, and AX1240S series of switches, and describes the functionality in software version 2.4 of the AX2200S, AX1250S, and AX1240S series switches that is supported by the OS-LT4, OS-LT3, and OS-LT2 software and optional licenses.

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Before you use the equipment, carefully read the manual and make sure that you understand all safety precautions. After reading the manual, keep it in a convenient place for easy reference.

■ **Notes**

Information in this document is subject to change without notice.

■ **Editions history**

July 2012 (Edition 7), AX1240S-S006X-60

■ **History of Amendments**

[Ver.2.4 (Edition 7)]

Summary of amendments

Location and title	Changes
Addition of series	● A description of the AX2200S was added.
1.1 MIB system diagram	● A description of the AX2200S was added.
1.2 MIB list	● A description of the AX2200S was added.
2.1 system group (MIB-II)	● A description of the AX2200S was added.
2.2 interfaces group (MIB-II)	● A description of the AX2200S was added.
3.10 ax2230sSwitch group (system switch model information MIB) [AX2200S]	● This section was added and subsequent section numbers were changed accordingly.
3.11 ax2230sDevice group (system switch chassis information MIB) [AX2200S]	● This section was added and subsequent section numbers were changed accordingly.

Location and title	Changes
3.12 ax2230sAuth group (authentication information) [AX2200S]	● This section was added and subsequent section numbers were changed accordingly.
4.1 Supported traps and timing of issuance	● A description of the AX2200S was added.
4.2 Supported Trap-PDU parameters [AX2200S]	● This section was added and subsequent section numbers were changed accordingly.

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

[Ver.2.3 (Edition 6)]

Summary of amendments

Location and title	Changes
axsAxrpMIB group (Ring Protocol information)	● axsAxrpGroupMultiFaultDetectionState has been added.

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

[Ver.2.3 (Edition 5)]

Summary of amendments

Location and title	Changes
system group (MIB-II)	● interfaces group implementation specifications were corrected.

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

[Ver.2.2 (Edition 4)]

Summary of amendments

Location and title	Changes
Addition of series	● A description of AX1250S was added.
MIB system diagram	● A description of AX1250S was added.
MIB list	● A description of AX1250S was added.
system group (MIB-II)	● A description of AX1250S was added.
interfaces group	● A description of AX1250S was added. ● Descriptions have been added with the support of the 100BASE-FX (SFP).
ifMIB (Ethernet interfaces)	● A description of AX1250S was added. ● Descriptions have been added with the support of the 100BASE-FX (SFP).

Location and title	Changes
ax1250sSwitch group (system switch model information MIB) [AX1250S]	● This section was added and subsequent section numbers were changed accordingly.
ax1250sDevice group (system switch chassis information MIB) [AX1250S]	● This section was added and subsequent section numbers were changed accordingly.
ax1250sAuth group (authentication information) [AX1250S]	● This section was added and subsequent section numbers were changed accordingly.
Supported traps and timing of issuance	● A description of the AX1250S was added.
Supported Trap-PDU parameters [AX1250S]	● This section was added and subsequent section numbers were changed accordingly.

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

[Ver.2.2 (Edition 3)]

Summary of amendments

Location and title	Changes
MIB system diagram	● The org(111), ieee(2), standards-association-numbered-series-standards(802), lan-man-stds(1), ieee802dot1(1), ieee802dot1mibs(8), ieee8021CfmMib(1) and axsAxrp(200) have been added.
MIB list	● IEEE 8021-CFM-MIB group and axsAxrpMIB group have been added.
IEEE 8021-CFM-MIB group	● This section was added.
axsAxrpMIB group (Ring Protocol information)	● This section was added.
ax1240sDeviceError group implementation specifications (switch fault information)	● This chapter was added.
Supported traps and timing of issuance	● The following were added to supported traps and timing of issuance: ax1240sAxrpStateTransitionTrap dot1agCfmFaultAlarm ax1240sDeviceErrorTrap
Supported Trap-PDU parameters	● The following were added to Supported Trap-PDU parameters: ax1240sAxrpStateTransitionTrap dot1agCfmFaultAlarm ax1240sDeviceErrorTrap

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

[Ver.2.1 (Edition 2)]

Summary of amendments

Location and title	Changes
ax1240sChassis group implementation specifications (fan information)	● The ax1240sChassis group implementation specifications have been changed.
Supported traps and timing of issuance	● Supported traps and timing of issuance implementation specifications for ax1240sDot1xSystemTrap have been changed.
Supported Trap-PDU parameters	● ax1240sDot1xSystemTrap has been added to the supported Trap-PDU parameters.

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

Preface

Applicable products and software versions

This manual applies to the models of the AX2200S, AX1250S, and AX1240S series of switches, and describes the functionality in software version 2.4 of the AX2200S, AX1250S, and AX1240S series switches that is supported by the OS-LT4, OS-LT3, and OS-LT2 software and optional licenses.

Before you operate the equipment, carefully read the manual and make sure that you understand all instructions and cautionary notes. After reading the manual, keep it in a convenient place for easy reference.

Unless otherwise noted, this manual describes functionality applicable to AX2200S, AX1250S, and AX1240S series switches. Functionality specific to a model is indicated as follows:

[*AX2200S*]:

The description applies to the AX2200S switch.

[*AX1250S*]:

The description applies to the AX1250S switch.

[*AX1240S*]:

The description applies to the AX1240S switch.

In addition, unless otherwise noted, this manual describes the functionality applicable to both OS-LT4, OS-LT3, and OS-LT2. The functionality supported by option licenses are indicated as follows:

[*OP-WOL*]:

The description applies to the OP-WOL optional license.

[*OP-OTP*]:

The description applies to the OP-OTP optional license.

Corrections to the manual

Corrections to this manual might be contained in the *Release Notes* and *Manual Corrections* that come with the software.

Intended readers

This manual is intended for system administrators who wish to configure and operate a network system that uses the Switch.

Readers must have an understanding of the following:

- The basics of network system management

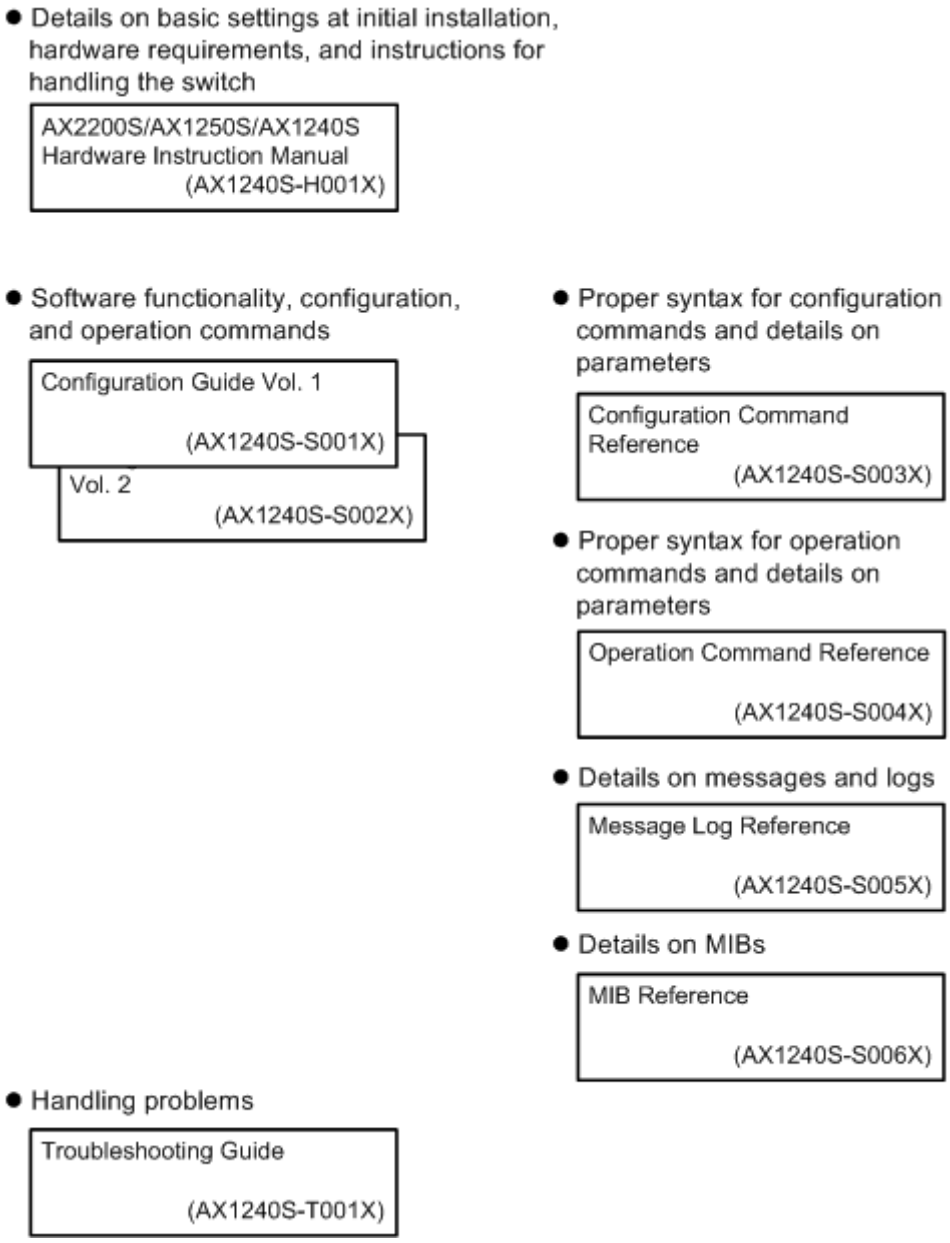
Manual URL

You can view this manual on our website at:

http://www.alaxala.com/en/

Reading sequence of the manuals

The following shows the manuals you need to consult according to your requirements determined from the following workflow for installing, setting up, and starting regular operation of the Switch.



Abbreviations used in the manual

AC	Alternating Current
ACK	ACKnowledge
ADSL	Asymmetric Digital Subscriber Line
ALG	Application Level Gateway
ANSI	American National Standards Institute
ARP	Address Resolution Protocol
AS	Autonomous System
AUX	Auxiliary
BGP	Border Gateway Protocol
BGP4	Border Gateway Protocol - version 4
BGP4+	Multiprotocol Extensions for Border Gateway Protocol - version 4
bit/s	bits per second (can also appear as bps)
BPDU	Bridge Protocol Data Unit
BRI	Basic Rate Interface

CC	Continuity Check
CDP	Cisco Discovery Protocol
CFM	Connectivity Fault Management
CIDR	Classless Inter-Domain Routing
CIR	Committed Information Rate
CIST	Common and Internal Spanning Tree
CLNP	ConnectionLess Network Protocol
CLNS	ConnectionLess Network System
CONS	Connection Oriented Network System
CRC	Cyclic Redundancy Check
CSMA/CD	Carrier Sense Multiple Access with Collision Detection
CSNP	Complete Sequence Numbers PDU
CST	Common Spanning Tree
DA	Destination Address
DC	Direct Current
DCE	Data Circuit terminating Equipment
DHCP	Dynamic Host Configuration Protocol
DIS	Draft International Standard/Designated Intermediate System
DNS	Domain Name System
DR	Designated Router
DSAP	Destination Service Access Point
DSCP	Differentiated Services Code Point
DTE	Data Terminal Equipment
DVMRP	Distance Vector Multicast Routing Protocol
E-Mail	Electronic Mail
EAP	Extensible Authentication Protocol
EAPOL	EAP Over LAN
EFM	Ethernet in the First Mile
ES	End System
FAN	Fan Unit
FCS	Frame Check Sequence
FDB	Filtering DataBase
FQDN	Fully Qualified Domain Name
FTTH	Fiber To The Home
GBIC	GigaBit Interface Converter
GSRP	Gigabit Switch Redundancy Protocol
HMAC	Keyed-Hashing for Message Authentication
IANA	Internet Assigned Numbers Authority
ICMP	Internet Control Message Protocol
ICMPv6	Internet Control Message Protocol version 6
ID	Identifier
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers, Inc.
IETF	the Internet Engineering Task Force
IGMP	Internet Group Management Protocol
IP	Internet Protocol
IPCP	IP Control Protocol
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
IPV6CP	IP Version 6 Control Protocol
IPX	Internetwork Packet Exchange
ISO	International Organization for Standardization
ISP	Internet Service Provider
IST	Internal Spanning Tree
L2LD	Layer 2 Loop Detection
LAN	Local Area Network
LCP	Link Control Protocol
LED	Light Emitting Diode
LLC	Logical Link Control
LLDP	Link Layer Discovery Protocol
LLQ+3WFQ	Low Latency Queueing + 3 Weighted Fair Queueing
LSP	Label Switched Path
LSP	Link State PDU

LSR	Label Switched Router
MA	Maintenance Association
MAC	Media Access Control
MC	Memory Card
MD5	Message Digest 5
MDI	Medium Dependent Interface
MDI-X	Medium Dependent Interface crossover
MEP	Maintenance association End Point
MIB	Management Information Base
MIP	Maintenance domain Intermediate Point
MRU	Maximum Receive Unit
MSTI	Multiple Spanning Tree Instance
MSTP	Multiple Spanning Tree Protocol
MTU	Maximum Transfer Unit
NAK	Not AcKnowledge
NAS	Network Access Server
NAT	Network Address Translation
NCP	Network Control Protocol
NDP	Neighbor Discovery Protocol
NET	Network Entity Title
NLA ID	Next-Level Aggregation Identifier
NPDU	Network Protocol Data Unit
NSAP	Network Service Access Point
NSSA	Not So Stubby Area
NTP	Network Time Protocol
OADP	Octpower Auto Discovery Protocol
OAM	Operations, Administration, and Maintenance
OSPF	Open Shortest Path First
OUI	Organizationally Unique Identifier
packet/s	packets per second (can also appear as pps)
PAD	PADding
PAE	Port Access Entity
PC	Personal Computer
PCI	Protocol Control Information
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PID	Protocol IDentifier
PIM	Protocol Independent Multicast
PIM-DM	Protocol Independent Multicast-Dense Mode
PIM-SM	Protocol Independent Multicast-Sparse Mode
PIM-SSM	Protocol Independent Multicast-Source Specific Multicast
PoE	Power over Ethernet
PRI	Primary Rate Interface
PS	Power Supply
PSNP	Partial Sequence Numbers PDU
QoS	Quality of Service
RA	Router Advertisement
RADIUS	Remote Authentication Dial In User Service
RDI	Remote Defect Indication
REJ	REJect
RFC	Request For Comments
RIP	Routing Information Protocol
RIPng	Routing Information Protocol next generation
RMON	Remote Network Monitoring MIB
RPF	Reverse Path Forwarding
RQ	ReQuest
RSTP	Rapid Spanning Tree Protocol
SA	Source Address
SD	Secure Digital
SDH	Synchronous Digital Hierarchy
SDU	Service Data Unit
SEL	NSAP SELector
SFD	Start Frame Delimiter

SFP	Small Form factor Pluggable
SMTP	Simple Mail Transfer Protocol
SNAP	Sub-Network Access Protocol
SNMP	Simple Network Management Protocol
SNP	Sequence Numbers PDU
SNPA	Subnetwork Point of Attachment
SPF	Shortest Path First
SSAP	Source Service Access Point
STP	Spanning Tree Protocol
TA	Terminal Adapter
TACACS+	Terminal Access Controller Access Control System Plus
TCP/IP	Transmission Control Protocol/Internet Protocol
TLA ID	Top-Level Aggregation Identifier
TLV	Type, Length, and Value
TOS	Type Of Service
TPID	Tag Protocol Identifier
TTL	Time To Live
UDLD	Uni-Directional Link Detection
UDP	User Datagram Protocol
ULR	Uplink Redundant
UPC	Usage Parameter Control
UPC-RED	Usage Parameter Control - Random Early Detection
VAA	VLAN Access Agent
VLAN	Virtual LAN
VRRP	Virtual Router Redundancy Protocol
WAN	Wide Area Network
WDM	Wavelength Division Multiplexing
WFQ	Weighted Fair Queueing
WRED	Weighted Random Early Detection
WS	Work Station
WWW	World-Wide Web
XFP	10 gigabit small Form factor Pluggable

Conventions: KB, MB, GB, and TB

This manual uses the following conventions: 1 KB (kilobyte) is 1024 bytes.1 MB (megabyte) is 1024^2 bytes.1 GB (gigabyte) is 1024^3 bytes.1 TB (terabyte) is 1024^4 bytes.

Conventions: The terms "Switch" and "switch"

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

- AX2200S series switch
- AX1250S series switch
- AX1240S series switch

The term *switch* (lower-case "s") might refer to a Switch, another type of switch from the current vendor, or a switch from another vendor. The context decides the meaning.

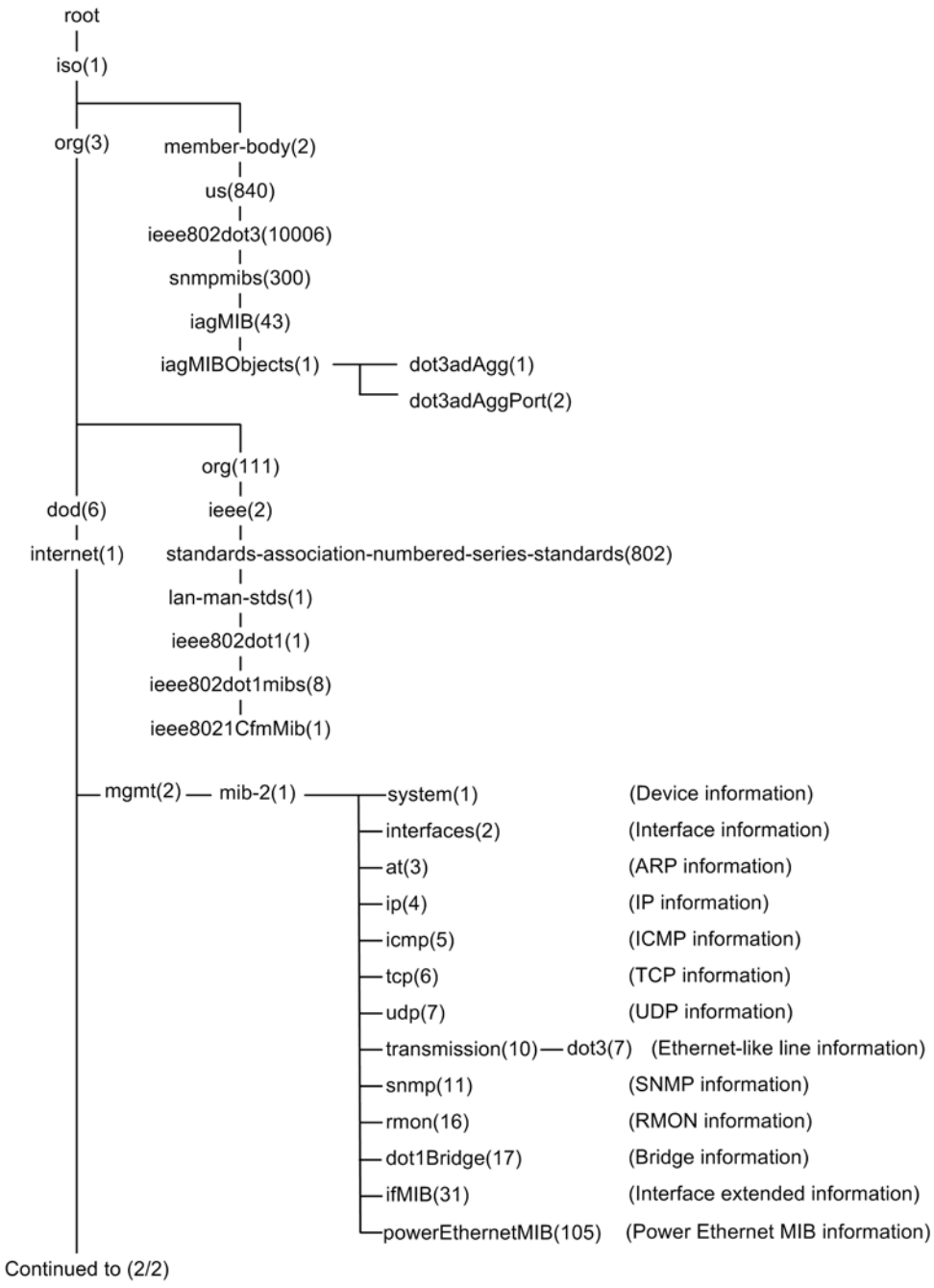
Contents

1. Overview of Supported MIBs

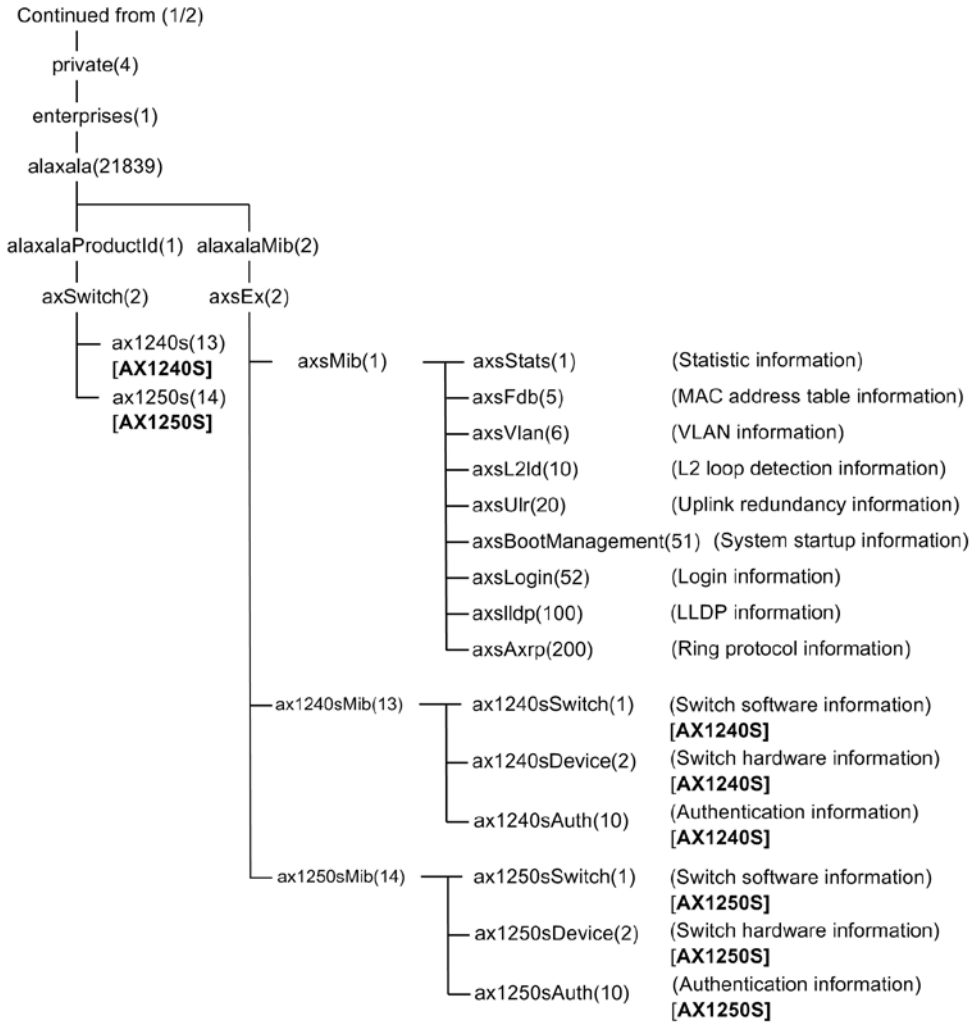
1.1 MIB system diagram

Diagrams of the MIB system supported by the Switch are shown in Figure 1-1 MIB system diagram (1/2) and Figure 1-2 MIB system diagram (2/2).

Figure 1-1 MIB system diagram



MIB system diagram (2/2)



1.2 MIB list

The following table shows the supported MIBs.

Table 1-1 MIB group list

MIB group			Functionality	Supported
Standard MIB	system group		MIB of information on a switch	Y
	interfaces group		MIB of information on an interface	Y
	at group		MIB of information on an ARP table	Y
	ip group	ip	MIB of IP information	Y
		ipAddrTable	MIB of address table information on an IP address	Y
		ipRouteTable	MIB of information on an IP routing table	N
		ipNetToMediaTable	MIB of information on an IP address conversion table	Y
		ipForward	MIB of information on an IP forwarding table	N
	icmp group		ICMP information MIB	Y
	tcp group	tcp	TCP information MIB	Y
		ipv6TcpConnTable	MIB of TCP information on IPv6	N
	udp group	udp	MIB of UDP information	Y
		ipv6UdpTable	MIB of UDP information on IPv6	N
	dot3 group		MIB of information on an Ethernet-like interface	Y
	snmp group		MIB of SNMP information	Y
	rmon group	Ethernet Statistics Group	MIB of the table on the statistics of an Ethernet interface	Y
		History Control Group	MIB of the history control table of Ethernet statistics	Y
		Ethernet History Group	MIB of the history table of Ethernet statistics	Y

MIB group			Functionality	Supported
		Alarm Group	MIB of information on an alarm table	Y
		Host Group	MIB of information on a host group	N
		Host Top"N"	MIB of information on a HostTopN group	N
		Matrix	MIB of information on a matrix group	N
		Filter	MIB of information on a filter group	N
		Packet Capture	MIB of information on a PacketCapture group	N
		Event Group	MIB of the table of an event generated using an RMON agent	Y
	dot1dBridge group	dot1dBase group	Bridge information	Y
		dot1dStp group	Information on a Spanning Tree Protocol	Y
		dot1dTp group	Forwarding information of a bridge	Y
		dot1dStatic group	Filtering information	N
		pBridgeMIB group	Priority control and multicast filtering information	Y
		qBridgeMIB group	Virtual bridge information	Y
	ifMIB group		MIB of interface extended information	Y
	ipv6MIB group	ipv6MIB ipv6 general group	MIB on an IPv6 interface	N
		ipv6IfTable	MIB of the table of a network layer interface (V6)	N
		ipv6IfStatsTable	MIB of the statistics table of IPv6 interface traffic	N
		ipv6AddrPrefixTable	MIB of the address prefix table of an IPv6 interface	N
		ipv6AddrTable	MIB of an interface address table	N
		ipv6RouteTable	MIB of an IPv6 routing table	N
		ipv6NetToMediaTable	MIB of an IPv6 address conversion table	N

MIB group			Functionality	Supported
	ipv6IcmpMIB group		IPv6 ICMP MIB	N
	NpowerEthernet MIB group	pethPsePortObjects group [AX2200S][AX1240S]	MIB concerning the port feeding characteristics in a feeder system	Y
		pethPsePortObjects group [AX1250S]	MIB concerning the port feeding characteristics in a feeder system	N
		pethMainPseObjects group [AX2200S][AX1240S]	MIB concerning the main power supply attributes of a feeder system	Y
		pethMainPseObjects group [AX1250S]	MIB concerning the main power supply attributes of a feeder system	N
		pethNotificatonControl group [AX2200S][AX1240S]	MIB concerning the notification information of a feeder system	Y
		pethNotificatonControl group [AX1250S]	MIB concerning the notification information of a feeder system	N
	IEEE 8021-CFM-MIB group	dot1agCfmStack group	MIB of a CFM stack table	Y
		dot1agCfmDefaultMd group	MIB of a CFM default MD table	N
		dot1agCfmVlan group	MIB of a CFM VLAN table	Y
		dot1agCfmConfigErrorList group	MIB of a CFM configuration information error list table	N
		dot1agCfmMd group	MIB of a CFM MD table	Y
		dot1agCfmMaNet group	MIB of a CFM MA net group	Y
		dot1agCfmMaComp group	MIB of a CFM MA component group	Y
		dot1agCfmMaMepList group	MIB of a CFM MA MEP list table	Y
		dot1agCfmMep group	MIB of a CFM MEP table	Y
		dot1agCfmLtr group	MIB of a CFM LTR table	Y
		dot1agCfmMepDb group	MIB of a CFM MEP database table	Y

MIB group			Functionality	Supported
	IEEE 8023-LAG-MIB group	dot3adAgg group	Information on an aggregator	Y
		dot3adAggPort group	Link Aggregation Control information on all AggregationPorts	Y
	IEEE 802.1X MIB group		MIB on IEEE 802.1X	Y
Private MIBs	axsStats group	axsIfStats group	MIB of mega unit interface statistics	Y
		axsQoS group	MIB of QoS statistics	Y
		axsDHCP group	MIB of statistics on a DHCP server	N
	axsGsrp MIB group	axsGsrpGroupTable group	MIB of a table that stores GSRP group information	N
		axsGsrpVlanGroupTable group	MIB of a table that stores GSRP VLAN group information	N
		axsGsrpNeighborGroupTable group	MIB of a table that stores the GSRP group information of a partner switch	N
		axsGsrpNeighborVlanGroupTable group	MIB of a table that stores the GSRP VLAN group information of a partner switch	N
	axsFdb group	axsFdbCounterTable	MIB of an information table on the MAC address table learning count	Y
	axsVlan group	axsVlanBridge group	MIB of the Bridge-MIB for each VLAN	Y
		axsVlanTagTranslation group	MIB of an information table for tag conversion	N
	axsL2ld MIB group	axsL2ldGlobalInfo group	MIB of L2 loop detection information	Y
		axsL2ldPortTable group	MIB of a table that stores L2 loop detecting port information	Y
	axsUlr group	axsUlrGlobalInfo group	MIB concerning uplink redundancy settings	Y
		axsUlrPortTable group	MIB of a table that stores uplink redundancy port information	Y
	axsOadp group	axsOadpGlobalInfo group	MIB of the active state of an OADP function	N

MIB group			Functionality	Supported
		axsOadpPortInfo group	MIB of OADP port information	N
		axsOadpNeighborInfo group	MIB of an OADP adjacent node	N
	axsFlow group	axsAccessFilterStats group	MIB of the table information corresponding to the number of packets that coincide with the flow detection conditions and operation information set in an access list	N
		axsQosFlowStats group	MIB of the table information corresponding to the number of packets that coincide with the flow detection conditions and operation information set in a QoS flow list	N
	axsBootManagement group		MIB on system start	Y
	axsLogin group		MIB of logins	Y
	axslldp group	axslldpConfiguration group	MIB of LLDP configuration	Y
		axslldpStats group	MIB of LLDP statistics	Y
		axslldpLocalSystemData group	MIB of information on the Switch for LLDP	Y
		axslldpRemoteSystemData group	MIB of information on the adjacent switch connected with the Switch for LLDP	Y
		axslldpRemoteOriginInfoData group	MIB of ALAXALA TLV information for LLDP	Y
	axsAxrpMIB group	axsAxrpGroupTable group	MIB of ring protocol group information	Y
		axsAxrpVlanGroupTable group	MIB of ring protocol VLAN group information	Y
	ax2230sSwitch group [AX2200S]		MIB of switch model information	Y
	ax2230sDevice [AX2200S]	ax2230sChassis group	MIB of switch chassis information	Y
		ax2230sPhysLine group	MIB of switch interface information	Y
		ax2230sDeviceError group	MIB of switch fault information	Y
	ax2230sManagement [AX2200S]	ax2230sFdbClearMIB group	MIB for clearing MAC address table information	N

MIB group			Functionality	Supported
	ax2230sAuth [AX2200S]	ax2230sAuth group	MIB common to authentication functionalities	Y
	ax1250sSwitch group [AX1250S]		MIB of switch model information	Y
	ax1250sDevice [AX1250S]	ax1250sChassis group	MIB of switch chassis information	Y
		ax1250sPhysLine group	MIB of switch interface information	Y
		ax1250sDeviceError group	MIB of switch fault information	Y
	ax1250sManagement [AX1250S]	ax1250sFdbClearMIB group	MIB for clearing MAC address table information	N
	ax1250sAuth [AX1250S]	ax1250sAuth group	MIB common to authentication functionalities	Y
	ax1240sSwitch group [AX1240S]		MIB of switch model information	Y
	ax1240sDevice [AX1240S]	ax1240sChassis group	MIB of switch chassis information	Y
		ax1240sPhysLine group	MIB of switch interface information	Y
		ax1240sDeviceError group	MIB of switch fault information	Y
	ax1240sManagement [AX1240S]	ax1240sFdbClearMIB group	MIB for clearing MAC address table information	N
	ax1240sAuth [AX1240S]	ax1240sAuth group	MIB common to authentication functionalities	Y
	icmp group (HP private MIB)		Private MIB for HP	N

Legend: Y: Supported in this Switch; N: Not supported in the Switch

1.3 Acquiring private MIB-defined files

Private MIB-defined files (ASN.1) are supplied together with the software.

1.4 Format of MIB descriptions

The format of the descriptions for supported MIBs described in this manual is given below. For each MIB, identifiers and implementation specifications are described for each group.

- *Identifier*

  This is the certified format for descriptions of object IDs.

  (Example) Private MIB: The format and object ID value of the identifier for the private MIB axsStats group are described below.

```
Identifier       axsStats OBJECT IDENTIFIER ::= {axsMib 1}
Object ID value   1.3.6.1.4.1.21839.2.2.1.1
```

  For details about the object ID value of a private MIB, see *A. Private MIB names and object ID values*.

- *Implementation specifications*

  The implementation specifications of each MIB are described

  As an example, the table describes the items of a private MIB as the implementation specifications of an axsStats group. The following table shows the implementation specifications for the axsStats group.

Table 1-2 Implementation specifications of the axsStats group

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsIfStatsTable {axsIfStats 1}	NOT-ACCESSIBLE	NA	Extended statistics table of the interface	Y
2	axsIfStatsEntry {axsIfStatsTable 1}	NOT-ACCESSIBLE	NA	Extended statistics table entry of the interface. INDEX { axsIfStatsIndex }	Y
3	axsIfStatsIndex {axsIfStatsEntry 1}	NOT-ACCESSIBLE	NA	Interface index of the Switch. Same as for ifIndex.	Y
. . .	. . .	. . .	. . .	. . .	. . .

Object identifier

This indicates the object identifier name of the MIB.

SYNTAX

The meaning of SYNTAX used in a private MIB is described in the table below. SYNTAX is described only in the implementation specifications of a private MIB.

Table 1-3 Meaning of SYNTAX used in a private MIB

No.	SYNTAX	Description of SYNTAX
1	Counter	Integer value that increases from 0 to 4294967295 (2^{32}-1) and returns to 0

No.	SYNTAX	Description of SYNTAX
2	Counter32	Integer value that increases from 0 to 4294967295 (2^{32}-1) and returns to 0
3	Counter64	Integer value that increases from 0 to 18446744073709551615 (2^{64}-1) and returns to 0
4	DisplayString	String of 0 or more and 255 or fewer characters (each byte is an NVT ASCII value)
5	Gauge	Integer of 0 or greater, whose value can be increased or decreased (in the range from 0 to 4,294,967,295)
6	INTEGER	Indicates integer information in the range from –2147483648 to 2147483647 (from -2^{31} to 2^{31}-1).
7	Integer32	Indicates integer information in the range from –2147483648 to 2147483647 (from -2^{31} to 2^{31}-1).
8	OCTET STRING	String of 0 or more characters (in 8-bit units). Each byte is from 0 to 255.
9	IpAddress	Four-byte octet string (in which a 32-bit IP address is stored)
10	Ipv6Address	16-byte octet string (in which a 128-bit IPv6 address is stored)
11	OBJECT IDENTIFIER	Stores the sequence-fixed list of a sub-ID.
12	MacAddress	802 MAC address, indicated in regular order, as defined by IEEE 802.1a. `OCTET STRING` type.
13	RowStatus	SYNTAX type for controlling the generation or deletion of a conceptual line entry
14	TimeStamp	Time stamp for measuring the time from a certain event in units of 1/100 seconds.
15	TimeTicks	Positive integer. The time from a certain event is indicated in units of 1/100 seconds.
16	BITS	"1" is assigned to the corresponding bit. The bit string is indicated by a string of 0 or more characters (in 8-bit units). Named bit 0 corresponds to the most significant bit, and the logical sum of each named bit is returned by GetResponse. (Example) The value returned by GetResponse becomes 0x82 when named bits 0 and 6 are valid.
17	NOT-ACCESSIBLE	Cannot be accessed.
18	PortList	Bitmap of a port."1" is assigned to the bit corresponding to a valid port. In this Switch, 1 is assigned to the bit corresponding to the ifIndex number of a port.
19	VlanIndex	Indicates the index number (from 1 to 4,094) of a VLAN.
20	AddressFamilyNumbers	Address number assigned by the IANA
21	VlanIdOrZero	Indicates the index number (from 1 to 4,094) of a VLAN.

No.	SYNTAX	Description of SYNTAX
22	SnmpAdminString	Character string including management information. `DisplayString` type.
23	InetAddressType	Internet address type
24	InetAddress	Internet address. `OCTET STRING` type.
25	OwnerString	String containing from 0 to 127 characters. Indicates the owner name of the resource assigned in management. `DisplayString` type.
26	BridgeId	Bridge ID used in a Spanning Tree Protocol. `OCTET STRING` type.
27	Timeout	STP timer with units of 1/100 seconds
28	TruthValue	True or false value
29	InterfaceIndex	ifIndex number managed by a system. Integer value in the range from 1 to 2147483647 (2^{31}-1)
30	Unsigned32	Integer information in the range from 0 to 4294967295 (2^{32}-1)
31	TimeFilter	Positive integer. Index number for indicating the time from a certain event in units of 1/100 seconds.

Access

- `R/O`: Indicates that the MIB access in a standard document is `Read_Only`.
- `R/W`: Indicates that the MIB access in a standard document is `Read_Write`.
- `R/NW`: Indicates that the MIB access in a standard document is `Read_Write`, but in the Switch it is `Read_Only`.
- `R/C`: Indicates that the MIB access in a standard document is `Read_Create`.
- `R/NC`: Indicates that the MIB access in a standard document is `Read_Create`, but in the Switch it is `Read_Only`.
- `AN`: Indicates that the MIB access in a standard document is `accessible-for-notify`. An object cannot be acquired and set, but `AN` can be read as the variable of a trap.
- `NA`: Indicates that the MIB access in a standard document is `not-accessible`.

Implementation specifications

[Standard]: Describes the standard overview of a standard document.

[Implementation]: Describes the implementation specifications in the Switch.

Implemented Y/N

- Y: Indicates a MIB that is supported in (responds to) the Switch. However, the MIB does not respond if the *Access* column is `NA`. Note that a response varies depending on the function used.
- *: Indicates a MIB that is supported in (responds to) this Switch, but that it responds with a fixed value because the information cannot be obtained at the Switch.
- N: Indicates a MIB that is not supported in (does not respond to) the Switch.

1. Overview of Supported MIBs

2. Standard MIB

This chapter describes the implementation specifications for the standard MIBs used by the Switch.

2.1 system group (MIB-II)

(1) Identifier

```
system OBJECT IDENTIFIER ::= {mib-2 1}
Object ID value 1.3.6.1.2.1.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the system group.

Table 2-1 system group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	sysDescr {system 1}	R/O	[Standard] The name or version number of a hardware device, operating system, or network operating system. [Implementation] A character string made up of a company name, product name, switch type, switch model, software name, software version, and software abbreviation. Example: For AX2200S "ALAXALA AX2230 AX-2230-xxx-x [AX2230S-xxx] Switching software Ver. 2.4 [OS-LTx]" ALAXALA: Company name AX2230: Product name AX-2230-xxx-x: Switch type AX2230S-xxx: Switch model Switching software: Software name Ver. 2.4: Software version OS-LTx: Software abbreviation	Y
2	sysObjectID {system 2}	R/O	[Standard] The authentication ID of a network management subsystem vendor. [Implementation] A fixed value. For AX2200S 1.3.6.1.4.1.21839.1.2.18 For AX1250S 1.3.6.1.4.1.21839.1.2.14 For AX1240SY 1.3.6.1.4.1.21839.1.2.13	Y
3	sysUpTime {system 3}	R/O	[Standard] The time elapsed since the system was started (10 millisecond counter). [Implementation] The time elapsed since the switch was started.	Y
4	sysContact {system 4}	R/NW	[Standard] A contact for a management node. [Implementation] A character string of no more than 60 characters specified by using a configuration command. The default is empty (NULL).	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
5	sysName {system 5}	R/NW	[Standard] The name or domain name of the management node. [Implementation] A character string of no more than 60 characters specified by using a configuration command. The default is empty (NULL).	Y
6	sysLocation {system 6}	R/NW	[Standard] The location on which the management node is installed. [Implementation] A character string of no more than 60 characters specified by using a configuration command. The default is empty (NULL).	Y
7	sysServices {system 7}	R/O	[Standard] A value indicating the service. [Implementation] Fixed value of 2.	Y

2.2 interfaces group (MIB-II)

2.2.1 interfaces group

(1) Identifier

```
interfaces OBJECT IDENTIFIER ::= {mib-2 2}
Object ID value 1.3.6.1.2.1.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the interfaces group.

Table 2-2 interfaces group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	ifNumber {interfaces 1}	R/O	[Standard] The number of network interfaces provided by this system. [Implementation] Same as the standard. Changing the interface configuration causes the value of this object to change.	Y
2	ifTable {interfaces 2}	NA	[Standard] A table of interface entities. [Implementation] Same as the standard.	Y
3	ifEntry {ifTable 1}	NA	[Standard] A list of interfaces that belong to the sub-network layer. INDEX { ifIndex } [Implementation] Same as the standard.	Y
4	ifIndex {ifEntry 1}	R/O	[Standard] The number that identifies the interface. A sequence number, in the range from 1 to ifNumber. [Implementation] Same as the standard. Changing the interface configuration causes the value of this object to change. The value of ifIndex is assigned as follows: [AX2200S] [AX1240S-48T2C] ● Port: 10 + port number -1 ● Link aggregation: 60 + channel-group-number ● VLAN: 200+VLAN ID [AX1250S-24T2C] [AX1240S-24T2C] [AX1240S-24P2C] ● Fastethernet port: 10 + port-number - 1 ● Gigabitethernet port: 34 + port number -1 ● Link aggregation: 60 + channel-group-number ● VLAN: 200+VLAN ID	Y
5	ifDescr {ifEntry 2}	R/O	[Standard] Interface information. [Implementation] A fixed character string and setting character string determined by the interface type.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
6	ifType {ifEntry 3}	R/O	[Standard] The interface type. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:Ethernet-csmacd(6). ● When the ifIndex indicates a VLAN:l2vlan(135). ● When the ifIndex indicates a link aggregation:ieee8023adLag(161).	Y
7	ifMtu {ifEntry 4}	R/O	[Standard] The maximum size of datagrams that can be sent and received by this interface (octets). [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN:The MTU (for an Ethernet interface belonging to the VLAN), system MTU information, or IP MTU information (only during setup), whichever is the smallest ● When the ifindex indicates a link aggregation: The smallest MTU (for an Ethernet interface belonging to the link aggregation)	Y
8	ifSpeed {ifEntry 5}	R/O	[Standard] The current line speed (bit/s) of this interface. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:If no bandwidth is set by using a configuration command, the line speed of the interface in question is shown. If a bandwidth has been set, the set bandwidth is shown. ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation:The total line speed of the physical ports used in the link aggregation is shown.	Y
9	ifPhysAddress {ifEntry 6}	R/O	[Standard] The physical address directly below the network layer of the interface. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Returns a response (in a canonical form) of the value that represents the MAC address ● When the ifIndex indicates a VLAN: Returns a response (in a canonical form) of the value that represents the MAC address assigned to the VLAN ● When the ifIndex indicates a link aggregation: Returns a response (in a canonical form) of the value that represents the MAC address of the channel group	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
10	ifAdminStatus {ifEntry 7}	R/W	[Standard] The desired status of this interface: ● up(1) ● down(2) ● testing(3) [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:If shutdown is specified in the configuration, the status is specified as down (2). ● When the ifIndex indicates a VLAN:If VLAN suspend is specified in the configuration, the status is specified as down (2). ● When the ifIndex indicates a link aggregation:If shutdown is specified for the channel group in the configuration, the status is specified as down (2).	Y
11	ifOperStatus {ifEntry 8}	R/O	[Standard] The current status of this interface: ● up(1) ● down(2) ● testing(3) [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Same as the standard ● When the ifIndex indicates a link aggregation: Same as the standard	Y
12	ifLastChange {ifEntry 9}	R/O	[Standard] sysUpTime for when the ifOperStatus of this interface last changed (in units of 1/100 seconds). [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Same as the standard ● When the ifIndex indicates a link aggregation: Same as the standard	Y
13	ifInOctets {ifEntry 10}	R/O	[Standard] The number of octets received by this interface. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:The number of octets received from the DA field of a MAC header to the FCS field ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation:The number of octets received from the DA field of a MAC header to the FCS field	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
14	ifInUcastPkts {ifEntry 11}	R/O	[Standard] The number of unicast packets sent to the higher-level protocol. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
15	ifInNUcastPkts {ifEntry 12}	R/O	[Standard] The number of non-unicast packets (broadcast and multicast packets) sent to the upper-layer protocol. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
16	ifInDiscards {ifEntry 13}	R/O	[Standard] The number of packets that contained no errors, but failed to be sent to the upper-layer protocol (or the number of packets that were received but discarded, for example, because there was no buffer). [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: The number of packets that were not forwarded because of functionality, such as IGMPsnooping. ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: The number of packets that were not forwarded because of functionality, such as IGMPsnooping.	Y
17	ifInErrors {ifEntry 14}	R/O	[Standard] The number of packets discarded because they contained errors. [Implementation] Depends on the interface as follows: ● The number of packets discarded because they contained errors such as an FCS error, short packet, maximum packet length error, collided packets, invalid packet format, or odd bit error ● When the ifIndex indicates a VLAN: Fixed value of 0 ● If ifIndex indicates a link aggregation:The number of packets discarded because they contained errors such as an FCS error, short packet, maximum packet length error, collided packets, invalid packet format, or odd bit error	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
18	ifInUnknownProtos {ifEntry 15}	R/O	[Standard] The number of packets received but discarded because the protocol is unsupported. [Implementation] Fixed value of 0.	*
19	ifOutOctets {ifEntry 16}	R/O	[Standard] The number of packet octets sent by this interface. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:The number of sent octets from the DA field of a MAC header to the FCS field ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: The number of octets sent whose frame length is from the DA field of the MAC header to the FCS field	Y
20	ifOutUcastPkts {ifEntry 17}	R/O	[Standard] The number of unicast packets sent by the higher-level layer. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
21	ifOutNUcastPkts {ifEntry 18}	R/O	[Standard] The number of non-unicast packets sent by the upper layer. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:The number of normal non-unicast packets sent by the upper layer (or the number of packets whose MAC DA contains an I/G bit of 1. However, this does not include MAC packets, but includes SMT.) ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation:The number of normal non-unicast packets sent by the upper layer (or the number of packets whose MAC DA contains an I/G bit of 1. However, this does not include MAC packets, but includes SMT.)	Y
22	ifOutDiscards {ifEntry 19}	R/O	[Standard] The number of packets that contained no errors but were discarded (for example, due to insufficient send buffers) before being sent. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:The number of events discarded due to a send FIFO overflow (underrun) ● When the ifIndex indicates a VLAN: Fixed value of 0	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
			● When the ifIndex indicates a link aggregation:The number of events discarded due to a send FIFO overflow (underrun)	
23	ifOutErrors {ifEntry 20}	R/O	[Standard] The number of packets that failed to be sent due to an error. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
24	ifOutQLen {ifEntry 21}	R/O	[Standard] The size of the send packet queue. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: The sum of the sizes of the send packet queues that belong to the channel group	Y
25	ifSpecific {ifEntry 22}	R/O	[Standard] The reference to the MIB that defines the medium features of the interface. This is the object ID of an ifType-dependent MIB. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Returns a response of 1.3.6.1.2.1.10.7 when normal. Otherwise 0.0. ● When the ifIndex indicates a VLAN: Fixed value of 0.0 ● When the ifIndex indicates a link aggregation: Fixed value of 0.0	Y

2.3 at group MIB (MIB-II)

(1) Identifier

```
at OBJECT IDENTIFIER ::= {mib-2 3}
Object ID value 1.3.6.1.2.1.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the at group.

Table 2-3 at group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	atTable {at 1}	NA	[Standard] An address translation table that contains the mappings of the NetworkAddress to the equivalent physical addresses. Some interfaces do not use the translation table to determine the equivalent addresses. For these interfaces, the address translation table is empty and contains no entries. [Implementation] Same as the standard. Indicates the mappings of network addresses to physical addresses.	Y
2	atEntry {atTable 1}	NA	[Standard] Each entry represents the mapping of a single NetworkAddress to its equivalent physical address. INDEX {atIfIndex, atNetAddress } [Implementation] Same as the standard.	Y
3	atIfIndex {atEntry 1}	R/NW	[Standard] The ifIndex value of the corresponding interface. [Implementation] The ifIndex of the interface that has an atPhysAddress. `Read_Only`.	Y
4	atPhysAddress {atEntry 2}	R/NW	[Standard] The physical address. [Implementation] The MAC address dependent on the ARP table, which is medium-dependent.	Y
5	atNetAddress {atEntry 3}	R/NW	[Standard] The IP address corresponding to the medium-dependent atPhysAddress. [Implementation] Same as the standard.	Y

2.4 ip group (MIB-II and IP forwarding table MIB)

2.4.1 ip

(1) Identifier

```
ip OBJECT IDENTIFIER ::= {mib-2 4}
Object ID value 1.3.6.1.2.1.4
```

(2) Implementation specifications

The following table shows the implementation specifications for the ip group.

Table 2-4 ip group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	ipForwarding {ip 1}	R/NW	[Standard] Indicates whether IP forwarding is available (or indicates whether the object serves as a gateway). {gateway(1), host(2) } [Implementation] Fixed value of host(2). Read_Only.	Y
2	ipDefaultTTL {ip 2}	R/NW	[Standard] A default value specified for the TTL of the IP header. [Implementation] Same as the standard. Read_Only.	Y
3	ipInReceives {ip 3}	R/O	[Standard] The total number of IP datagrams received across all the interfaces. [Implementation] Same as the standard. - Fixed value of 0	*
4	ipInHdrErrors {ip 4}	R/O	[Standard] The number of datagrams received but discarded due to an IP header error. [Implementation] Includes the number of IP packets that contain an error, such as an IP header checksum error, version error, header length error (TTL over), or format error. - Fixed value of 0	*
5	ipInAddrErrors {ip 5}	R/O	[Standard] The number of packets discarded because the IP header contained an invalid destination address. [Implementation] Runs a count when the class of the destination address is not A, B, C, or D. It also runs a count when the destination address is an invalid broadcast address (255.255.255.255 or 0.0.0.0).	Y
6	ipForwDatagrams {ip 6}	R/O	[Standard] The number of packets determined to be forwarded. [Implementation] Same as the standard. - Fixed value of 0	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
7	ipInUnknownProtos {ip 7}	R/O	[Standard] The number of IP datagrams discarded because an unknown or unsupported protocol was detected in an incoming IP packet that was received. [Implementation] Same as the standard.	Y
8	ipInDiscards {ip 8}	R/O	[Standard] The total number of sent IP datagrams discarded due to a reason other than an error. [Implementation] The number of packets received when ifOperStatus is not up.	Y
9	ipInDelivers {ip 9}	R/O	[Standard] The number of IP datagrams sent to the upper layer. [Implementation] The number of incoming IP packets received.	Y
10	ipOutRequests {ip 10}	R/O	[Standard] The total number of IP datagrams requested to be sent as IP packets by the upper layer. [Implementation] The number of outgoing IP packets sent.	Y
11	ipOutDiscards {ip 11}	R/O	[Standard] The number of IP datagrams discarded due to a reason other than an error. [Implementation] The number of IP packets discarded prior to being sent due to congestion control or insufficient send buffers.# - Fixed value of 0	Y
12	ipOutNoRoutes {ip 12}	R/O	[Standard] The number of IP datagrams discarded because the transmission route was not specified. [Implementation] Runs a count before packet forwarding when the destination network is not found in the routing table.	Y
13	ipReasmTimeout {ip 13}	R/O	[Standard] The maximum number of seconds to hold a fragmented packet waiting to be reassembled. [Implementation] Same as the standard.	Y
14	ipReasmReqds {ip 14}	R/O	[Standard] The number of received IP datagrams to be reassembled. [Implementation] Same as the standard.	Y
15	ipReasmOKs {ip 15}	R/O	[Standard] The number of received IP datagrams that were successfully reassembled. [Implementation] Same as the standard.	Y
16	ipReasmFails {ip 16}	R/O	[Standard] The number of received IP datagrams that failed to be reassembled. [Implementation] Same as the standard.	Y
17	ipFragOKs {ip 17}	R/O	[Standard] The number of IP datagrams that successfully fragmented. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
18	ipFragFails {ip 18}	R/O	[Standard] The number of IP datagrams that failed to fragment. [Implementation] Runs a count when the required fragmentation of a packet cannot be performed because the DF bit of the IP header is on. A count is also run when a buffer for fragmentation cannot be reserved.	Y
19	ipFragCreates {ip 19}	R/O	[Standard] The number of IP datagram fragments generated by fragmentation. [Implementation] Same as the standard.	Y

2.4.2 ipAddrTable

(1) Identifiers

```
ip OBJECT IDENTIFIER ::= {mib-2 4}

ipAddrTable OBJECT IDENTIFIER ::= {ip 20}
Object ID value 1.3.6.1.2.1.4.20
```

(2) Implementation specifications

The following table shows the implementation specifications for the ipAddrTable group.

Table 2-5 ipAddrTable group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	ipAddrTable {ip 20}	NA	[Standard] A table of addressing information related to the IP addresses for this entity (addressing information table that is IP address-specific). [Implementation] Same as the standard.	Y
2	ipAddrEntry {ipAddrTable 1}	NA	[Standard] A list of addressing information related to one of the IP addresses for this entity. [Implementation] Same as the standard.	Y
3	ipAdEntAddr {ipAddrEntry 1}	R/O	[Standard] An IP address. [Implementation] Port IP address.	Y
4	ipAdEntIfIndex {ipAddrEntry 2}	R/O	[Standard] The Interface index value applied by this entry. Same value as ifIndex. [Implementation] Same as the standard.	Y
5	ipAdEntNetMask {ipAddrEntry 3}	R/O	[Standard] The subnet mask for the IP address of this entry. [Implementation] Same as the standard.	Y
6	ipAdEntBcastAddr {ipAddrEntry 4}	R/O	[Standard] The lowest bit value of the address used when sending an IP broadcast. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
7	ipAdEntReasmMaxSize {ipAddrEntry 5}	R/O	[Standard] The maximum size of the IP packets created by reassembling the IP datagrams received and fragmented by the interface. [Implementation] Same as the standard.	Y

2.4.3 ipNetToMediaTable

(1) Identifiers

```
ip OBJECT IDENTIFIER ::= {mib-2 4}

ipNetToMediaTable OBJECT IDENTIFIER ::= {ip 22}
Object ID value 1.3.6.1.2.1.4.22
```

(2) Implementation specifications

The following table shows the implementation specifications for the ipNetToMediaTable group.

Table 2-6 ipNetToMediaTable group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	ipNetToMediaTable {ip 22}	NA	[Standard] An IP address translation table used to map the IP addresses to the physical addresses. [Implementation] Same as the standard.	Y
2	ipNetToMediaEntry {ipNetToMediaTable 1}	NA	[Standard] A list of IP addresses. Each IP address is associated with a physical address. INDEX {ipNetToMediaIfIndex, ipNetToMediaNetAddress } [Implementation] Same as the standard.	Y
3	ipNetToMediaIfIndex {ipNetToMediaEntry 1}	R/NC	[Standard] The validated interface ID number. [Implementation] Same as the standard. Read_Only.	Y
4	ipNetToMediaPhysAddress {ipNetToMediaEntry 2}	R/NC	[Standard] The medium-dependent physical address. [Implementation] Same as the standard. Read_Only.	Y
5	ipNetToMediaNetAddress {ipNetToMediaEntry 3}	R/NC	[Standard] An IP address that corresponds to a medium-dependent IP address. [Implementation] Same as the standard. Read_Only.	Y
6	ipNetToMediaType {ipNetToMediaEntry 4}	R/NC	[Standard] The mapping type: {other(1), invalid(2), dynamic(3), static(4)} [Implementation] Same as the standard. Read_Only.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
7	ipRoutingDiscards {ip 23}	R/O	[Standard] The number of routing entries that are valid but selected to be discarded. For example, this indicates the number of entries discarded due to insufficient routing buffers. [Implementation] Fixed value of 0.	Y

2.5 icmp group (MIB-II)

(1) Identifier

```
icmp OBJECT IDENTIFIER ::= {mib-2 5}
Object ID value 1.3.6.1.2.1.5
```

(2) Implementation specifications

The following table shows the implementation specifications for the icmp group.

Table 2-7 icmp group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	icmpInMsgs {icmp 1}	R/O	[Standard] The total number of ICMP messages received by this entity. [Implementation] Same as the standard.	Y
2	icmpInErrors {icmp 2}	R/O	[Standard] The number of ICMP message errors received (such as checksum errors and frame length errors). [Implementation] Same as the standard.	Y
3	icmpInDestUnreachs {icmp 3}	R/O	[Standard] The number of ICMP Destination Unreachable messages received. [Implementation] Same as the standard.	Y
4	icmpInTimeExcds {icmp 4}	R/O	[Standard] The number of ICMP Time Exceeded messages received. [Implementation] Same as the standard.	Y
5	icmpInParmProbs {icmp 5}	R/O	[Standard] The number of ICMP Parameter Problem messages received. [Implementation] Same as the standard.	Y
6	icmpInSrcQuenchs {icmp 6}	R/O	[Standard] The number of ICMP Source Quench messages received. [Implementation] Same as the standard.	Y
7	icmpInRedirects {icmp 7}	R/O	[Standard] The number of ICMP Redirect messages received. [Implementation] Same as the standard.	Y
8	icmpInEchos {icmp 8}	R/O	[Standard] The number of ICMP Echo Request messages received. [Implementation] Same as the standard.	Y
9	icmpInEchoReps {icmp 9}	R/O	[Standard] The number of ICMP Echo Reply messages received. [Implementation] Same as the standard.	Y
10	icmpInTimestamps {icmp 10}	R/O	[Standard] The number of ICMP Timestamp request messages received. [Implementation] Same as the standard.	Y
11	icmpInTimestampReps	R/O	[Standard] The number of ICMP Timestamp Reply messages received.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
	{icmp 11}		[Implementation] Same as the standard.	
12	icmpInAddrMasks {icmp 12}	R/O	[Standard] The number of ICMP Address Mask Request messages received. [Implementation] Same as the standard.	Y
13	icmpInAddrMaskReps {icmp 13}	R/O	[Standard] The number of ICMP Address Mask Reply messages received. [Implementation] Same as the standard.	Y
14	icmpOutMsgs {icmp 14}	R/O	[Standard] The total number of attempts to send ICMP messages (including error attempts). [Implementation] Same as the standard.	Y
15	icmpOutErrors {icmp 15}	R/O	[Standard] The number of ICMP messages that failed to be sent due to an error. [Implementation] Only runs a count when there are no buffers.	Y
16	icmpOutDestUnreachs {icmp 16}	R/O	[Standard] The number of ICMP Destination Unreachable messages sent. [Implementation] Same as the standard.	Y
17	icmpOutTimeExcds {icmp 17}	R/O	[Standard] The number of ICMP Time Exceeded messages sent. [Implementation] Same as the standard.	Y
18	icmpOutParmProbs {icmp 18}	R/O	[Standard] The number of ICMP Parameter Problem messages sent. [Implementation] Same as the standard.	Y
19	icmpOutSrcQuenchs {icmp 19}	R/O	[Standard] The number of ICMP Source Quench messages sent. [Implementation] Same as the standard.	Y
20	icmpOutRedirects {icmp 20}	R/O	[Standard] The number of ICMP Redirect messages sent. [Implementation] Same as the standard.	Y
21	icmpOutEchos {icmp 21}	R/O	[Standard] The number of ICMP Echo Request messages sent. [Implementation] Same as the standard.	Y
22	icmpOutEchoReps {icmp 22}	R/O	[Standard] The number of ICMP Echo Reply messages sent. [Implementation] Same as the standard.	Y
23	icmpOutTimestamps {icmp 23}	R/O	[Standard] The number of ICMP Timestamp request messages sent. [Implementation] Same as the standard.	Y
24	icmpOutTimestampReps {icmp 24}	R/O	[Standard] The number of ICMP Timestamp Reply messages sent. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
25	icmpOutAddrMasks {icmp 25}	R/O	[Standard] The number of ICMP Address Mask Request messages sent. [Implementation] Same as the standard.	Y
26	icmpOutAddrMaskReps {icmp 26}	R/O	[Standard] The number of ICMP Address Mask Reply messages sent. [Implementation] Same as the standard.	Y

2.6 tcp group (MIB-II)

The tcp group is described in the following document:

- RFC2452 (December 1998)

2.6.1 tcp

(1) Identifier

```
tcp OBJECT IDENTIFIER ::= {mib-2 6}
Object ID value 1.3.6.1.2.1.6
```

(2) Implementation specifications

The following table shows the implementation specifications for the tcp group.

Table 2-8 tcp group

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	tcpRtoAlgorithm {tcp 1}	R/O	[Standard] The algorithm used to determine the timeout for resending: {other(1), constant(2), rsre(3), vanj(4)} [Implementation] Fixed value of vanj (4).	*
2	tcpRtoMin {tcp 2}	R/O	[Standard] The minimum resend timeout value (in milliseconds). [Implementation] Fixed value of 1000.	*
3	tcpRtoMax {tcp 3}	R/O	[Standard] The maximum resend timeout value (in milliseconds). [Implementation] Fixed value of 64000.	*
4	tcpMaxConn {tcp 4}	R/O	[Standard] The total number of TCP connections that can be supported. If the maximum number of connections is dynamic, a response of -1 is returned. [Implementation] Fixed value of -1.	*
5	tcpActiveOpens {tcp 5}	R/O	[Standard] The number of TCP connection state transitions from CLOSE to SYN-SENT. [Implementation] Same as the standard.	Y
6	tcpPassiveOpens {tcp 6}	R/O	[Standard] The number of TCP connection state transitions from LISTEN to SYN-RCVD. [Implementation] Same as the standard.	Y
7	tcpAttemptFails {tcp 7}	R/O	[Standard] The sum of the number of TCP connection state transitions from SYN-SENT or SYN-RCVD to CLOSE, and the number from SYN-RCVD to LISTEN. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
8	tcpEstabResets {tcp 8}	R/O	[Standard] The number of TCP connection state transitions from ESTABLISHED or CLOSE-WAIT to CLOSE. [Implementation] Same as the standard.	Y
9	tcpCurrEstab {tcp 9}	R/O	[Standard] The total number of TCP connections in the ESTABLISHED or CLOSE-WAIT state. [Implementation] Same as the standard.	Y
10	tcpInSegs {tcp 10}	R/O	[Standard] The total number of segments received that contain an erroneous segment. [Implementation] Same as the standard.	Y
11	tcpOutSegs {tcp 11}	R/O	[Standard] The total number of segments sent. [Implementation] Same as the standard.	Y
12	tcpRetransSegs {tcp 12}	R/O	[Standard] The total number of segments resent. [Implementation] Same as the standard.	Y
13	tcpConnTable {tcp 13}	NA	[Standard] A table that contains information specific to the TCP connections. [Implementation] Same as the standard.	Y
14	tcpConnEntry {tcpConnTable 1}	NA	[Standard] Entry information for a specific TCP connection. INDEX {tcpConnLocalAddress, tcpConnLocalPort, tcpConnRemAddress, tcpConnRemPort } [Implementation] Same as the standard.	Y
15	tcpConnState {tcpConnEntry 1}	R/NW	[Standard] The TCP connection state: {closed(1), listen(2), synSent(3), synReceived(4), established(5), finWait1(6), finWait2(7), closeWait(8), lastAck(9), closing(10), timeWait(11), deleteTCB(12)} [Implementation] Same as the standard. Read_Only.	Y
16	tcpConnLocalAddress {tcpConnEntry 2}	R/O	[Standard] The local IP address for this TCP connection. [Implementation] Same as the standard.	Y
17	tcpConnLocalPort {tcpConnEntry 3}	R/O	[Standard] The local port number for this TCP connection. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
18	tcpConnRemAddress {tcpConnEntry 4}	R/O	[Standard] The remote IP address for this TCP connection. [Implementation] Same as the standard.	Y
19	tcpConnRemPort {tcpConnEntry 5}	R/O	[Standard] The remote port number for this TCP connection. [Implementation] Same as the standard.	Y
20	tcpInErrs {tcp 14}	R/O	[Standard] The total number of erroneous segments received. [Implementation] Same as the standard.	Y
21	tcpOutRsts {tcp 15}	R/O	[Standard] The number of segments sent that have an RST flag. [Implementation] Same as the standard.	Y

2.7 udp group (MIB-II)

The udp group is described in the following document:

- RFC2454 (December 1998)

2.7.1 udp

(1) Identifier

```
udp OBJECT IDENTIFIER ::= {mib-2 7}
Object ID value 1.3.6.1.2.1.7
```

(2) Implementation specifications

The following table shows the implementation specifications for the udp group.

Table 2-9 udp group

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	udpInDatagrams {udp 1}	R/O	[Standard] The number of UDP datagrams sent to the upper layer. [Implementation] Same as the standard.	Y
2	udpNoPorts {udp 2}	R/O	[Standard] The total number of UDP datagrams received for which there is no upper application on a destination port. [Implementation] Same as the standard.	Y
3	udpInErrors {udp 3}	R/O	[Standard] The number of UDP datagrams that failed to be sent to the application due to reasons other than udpNoPorts. [Implementation] Same as the standard.	Y
4	udpOutDatagrams {udp 4}	R/O	[Standard] The total number of UDP datagrams sent by the upper application. [Implementation] Same as the standard.	Y
5	udpTable {udp 5}	NA	[Standard] A table that lists UDP listener information. [Implementation] Same as the standard.	Y
6	udpEntry {udpTable 1}	NA	[Standard] The number of entries for a specific UDP listener. INDEX {udpLocalAddress, udpLocalPort} [Implementation] Same as the standard.	Y
7	udpLocalAddress {udpEntry 1}	R/O	[Standard] The local IP address for this UDP listener. [Implementation] Same as the standard.	Y
8	udpLocalPort {udpEntry 2}	R/O	[Standard] The local port number for this UDP listener. [Implementation] Same as the standard.	Y

2.8 dot3 group (Ethernet-like MIB)

The dot3 group is described in the following document:

- RFC 1643

(1) Identifier

```
dot3 OBJECT IDENTIFER ::= {transmission 7}
Object ID value 1.3.6.1.2.1.10.7
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot3 group.

Table 2-10 dot3 group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot3StatsTable {dot3 2}	NA	[Standard] A table of statistics for Ethernet-like interfaces connected to a specific system. [Implementation] Same as the standard.	Y
2	dot3StatsEntry {dot3StatsTable 1}	NA	[Standard] A list of statistics for a specific interface to an Ethernet-like medium. INDEX { dot3StatsIndex } [Implementation] Same as the standard.	Y
3	dot3StatsIndex {dot3StatsEntry 1}	R/O	[Standard] The index value of the interface to an Ethernet-like medium. [Implementation] Same as the standard.	Y
4	dot3StatsAlignmentErrors {dot3StatsEntry 2}	R/O	[Standard] The number of frames received that are detected by FCS checking and have an incorrect frame length.# [Implementation] Fixed value of 0.	*
5	dot3StatsFCSErrors {dot3StatsEntry 3}	R/O	[Standard] The number of frames received that are detected by FCS checking and have the correct frame length.# [Implementation] Same as the standard. However, alignment errors and symbol errors are included.	Y
6	dot3StatsSingleCollisionFrames {dot3StatsEntry 4}	R/O	[Standard] The number of frames sent successfully that only encountered a single collision. [Implementation] Same as the standard.	Y
7	dot3StatsMultipleCollisionFrames {dot3StatsEntry 5}	R/O	[Standard] The number of frames sent successfully by a specific interface that encountered two or more collisions. [Implementation] Same as the standard.	Y
8	dot3StatsSQETestErrors {dot3StatsEntry 6}	R/O	[Standard] The number of SQE TEST ERROR messages encountered. [Implementation] Fixed value of 0.	*
9	dot3StatsDeferredTransmissions {dot3StatsEntry 7}	R/O	[Standard] The number of frames whose initial transmission was delayed because the transmission line was busy.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
			[Implementation] Same as the standard.	
10	dot3StatsLateCollisions {dot3StatsEntry 8}	R/O	[Standard] The number of collisions detected after a 512-bit time elapsed. [Implementation] Same as the standard.	Y
11	dot3StatsExcessiveCollisions {dot3StatsEntry 9}	R/O	[Standard] The number of transfer failures due to excessive collisions (16). [Implementation] Same as the standard.	Y
12	dot3StatsInternalMacTransmitErrors {dot3StatsEntry 10}	R/O	[Standard] The number of send failures due to a send error in the MAC sub-layer. [Implementation] Fixed value of 0.	*
13	dot3StatsCarrierSenseErrors {dot3StatsEntry 11}	R/O	[Standard] The number of no-carrier errors that occurred during transmission. [Implementation] Same as the standard.	Y
14	dot3StatsFrameTooLongs {dot3StatsEntry 13}	R/O	[Standard] The number of received frames that exceed the maximum allowable frame length.# [Implementation] Same as the standard. (For 100BASE-TX ports, alignment errors are also included.)	Y
15	dot3StatsInternalMacReceiveErrors {dot3StatsEntry 16}	R/O	[Standard] The number of frames that failed to be received due to a reception error in the MAC sub-layer. [Implementation] Fixed value of 0.	*
16	dot3StatsEtherChipSet {dot3StatsEntry 17}	R/O	[Standard] The object identifier of the chipset used in the interface. [Implementation] Fixed value of 0.0.	*

The frame length indicates the length starting from the MAC header and ending with the FCS field. For details about the frame format, see *13.1.3 Control on the MAC and LLC sublayers in the manual Configuration Guide Vol. 1*.

2.9 snmp group (MIB-II)

(1) Identifier

```
snmp OBJECT IDENTIFIER ::= {mib-2 11}
Object ID value 1.3.6.1.2.1.11
```

(2) Implementation specifications

The following table shows the implementation specifications for the snmp group.

Table 2-11 snmp group

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	snmpInPkts {snmp 1}	R/O	[Standard] The total number of SNMP received messages. [Implementation] Same as the standard.	Y
2	snmpOutPkts {snmp 2}	R/O	[Standard] The total number of SNMP sent messages. [Implementation] Same as the standard.	Y
3	snmpInBadVersions {snmp 3}	R/O	[Standard] The total number of messages received from an unsupported version. [Implementation] Same as the standard.	Y
4	snmpInBadCommunityNames {snmp 4}	R/O	[Standard] The total number of SNMP received messages from an unused community. [Implementation] Same as the standard.	Y
5	snmpInBadCommunityUses {snmp 5}	R/O	[Standard] The total number of messages received that indicated a non-permitted operation in the community. [Implementation] Same as the standard.	Y
6	snmpInASNParseErrs {snmp 6}	R/O	[Standard] The total number of messages received that have an ANS.1 error. [Implementation] Same as the standard.	Y
7	snmpInBadTypes {snmp 7}	R/O	[Standard] The total number of unknown PDU types that are received. [Implementation] Fixed value of 0.	Y
8	snmpInTooBigs {snmp 8}	R/O	[Standard] The total number of received PDUs that have an error status of tooBig. [Implementation] Same as the standard. Fixed value of 0.	Y
9	snmpInNoSuchNames {snmp 9}	R/O	[Standard] The total number of received PDUs that have an error status of noSuchName. [Implementation] Same as the standard. Fixed value of 0.	Y
10	snmpInBadValues {snmp 10}	R/O	[Standard] The total number of received PDUs that have an error status of badValue. [Implementation] Same as the standard. Fixed	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
			value of 0.	
11	snmpInReadOnlys {snmp 11}	R/O	[Standard] The total number of received PDUs that have an error status of readOnly. [Implementation] Same as the standard. Fixed value of 0.	Y
12	snmpInGenErrs {snmp 12}	R/O	[Standard] The total number of received PDUs that have an error status of genErr. [Implementation] Same as the standard. Fixed value of 0.	Y
13	snmpInTotalReqVars {snmp 13}	R/O	[Standard] The total number of MIB objects for which a MIB was successfully collected. [Implementation] Same as the standard.	Y
14	snmpInTotalSetVars {snmp 14}	R/O	[Standard] The total number of MIB objects for which a MIB was successfully configured. [Implementation] Same as the standard.	Y
15	snmpInGetRequests {snmp 15}	R/O	[Standard] The total number of GetRequestPDUs received. [Implementation] Same as the standard.	Y
16	snmpInGetNexts {snmp 16}	R/O	[Standard] The total number of GetNextRequestPDUs received. [Implementation] Same as the standard.	Y
17	snmpInSetRequests {snmp 17}	R/O	[Standard] The total number of SetRequestPDUs received. [Implementation] Same as the standard.	Y
18	snmpInGetResponses {snmp 18}	R/O	[Standard] The total number of GetResponsePDUs received. [Implementation] Same as the standard. Fixed value of 0.	Y
19	snmpInTraps {snmp 19}	R/O	[Standard] The total number of Trap-PDUs received. [Implementation] Same as the standard. Fixed value of 0.	Y
20	snmpOutTooBigs {snmp 20}	R/O	[Standard] The total number of sent PDUs that have an error status of tooBig. [Implementation] Same as the standard.	Y
21	snmpOutNoSuchNames {snmp 21}	R/O	[Standard] The total number of sent PDUs that have an error status of noSuchName. [Implementation] Same as the standard. SNMP version 2 or later is not applicable.	Y
22	snmpOutBadValues {snmp 22}	R/O	[Standard] The total number of sent PDUs that have an error status of badValue. [Implementation] Same as the standard. SNMP	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
			version 2 or later is not applicable.	
23	snmpOutReadOnlys {snmp 23}	R/O	[Standard] The total number of sent PDUs that have an error status of readOnly. [Implementation] Fixed value of 0.	Y
24	snmpOutGenErrs {snmp 24}	R/O	[Standard] The total number of sent PDUs that have an error status of genErr. [Implementation] Same as the standard.	Y
25	snmpOutGetRequests {snmp 25}	R/O	[Standard] The total number of GetRequestPDUs sent. [Implementation] Same as the standard. Fixed value of 0.	Y
26	snmpOutGetNexts {snmp 26}	R/O	[Standard] The total number of GetNextRequestPDUs sent. [Implementation] Same as the standard. Fixed value of 0.	Y
27	snmpOutSetRequests {snmp 27}	R/O	[Standard] The total number of SetRequestPDUs sent. [Implementation] Same as the standard. Fixed value of 0.	Y
28	snmpOutGetResponses {snmp 28}	R/O	[Standard] The total number of GetResponsePDUs sent. [Implementation] Same as the standard.	Y
29	snmpOutTraps {snmp 29}	R/O	[Standard] The total number of Trap-PDUs sent. [Implementation] Same as the standard.	Y
30	snmpEnableAuthenTraps {snmp 30}	R/NW	[Standard] Indicates whether an authentication-failure trap can be sent: ● enable(1) ● disable(2) [Implementation] Same as the standard. enable when any snmp-server host configuration command is set.	Y
31	snmpSilentDrops {snmp 31}	R/O	[Standard] The total number of SNMP received messages that are discarded because the response message exceeded the maximum message size. [Implementation] Not implemented.	N

2.10 rmon group (remote network monitoring MIB)

The rmon group is described in the following document:

- RFC 1757

2.10.1 Ethernet Statistics group

(1) Identifiers

```
rmon OBJECT IDENTIFIER ::= {mib-2 16}

statistics OBJECT IDENTIFIER ::= {rmon 1}
Object ID value 1.3.6.1.2.1.16.1

etherStatsTable OBJECT IDENTIFIER ::= {statistics 1}
Object ID value 1.3.6.1.2.1.16.1.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the Ethernet Statistics group.

Table 2-12 Ethernet Statistics group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	etherStatsTable {statistics 1}	NA	[Standard] A table of statistics for an Ethernet interface. [Implementation] Same as the standard.	Y
2	etherStatsEntry {etherStatsTable 1}	NA	[Standard] An entry that contains statistics for a specific Ethernet interface. INDEX { etherStatsIndex } [Implementation] Same as the standard.	Y
3	etherStatsIndex {etherStatsEntry 1}	R/O	[Standard] An Index value that indicates a specific etherStats entry. The value ranges from 1 to 65535. [Implementation] Same as the standard.	Y
4	etherStatsDataSource {etherStatsEntry 2}	R/NC	[Standard] The object ID of an interface associated with this information. This object instance is the ifIndex of the MIB-II interfaces group. [Implementation] Same as the standard. Read_Only.	Y
5	etherStatsDropEvents {etherStatsEntry 3}	R/O	[Standard] The number of events that a packet has dropped due to insufficient resources. This number indicates the detected packet drops, not the actual packet drops. [Implementation] Same as the standard.	Y
6	etherStatsOctets {etherStatsEntry 4}	R/O	[Standard] The number of octets (bytes), including bad packets, that are received over the network. [Implementation] The number of octets (bytes), including bad packets, that are sent or received over the network. Calculation of octet values is based on the range from the MAC header to the FCS field over the length	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
			of the frame.	
7	etherStatsPkts {etherStatsEntry 5}	R/O	[Standard] The total number of packets received, including bad, broadcast, and multicast packets. [Implementation] The total number of packets sent and received, including bad, broadcast, and multicast packets.	Y
8	etherStatsBroadcastPkts {etherStatsEntry 6}	R/O	[Standard] The number of broadcast packets received, excluding bad and multicast packets. [Implementation] The number of broadcast packets sent and received, excluding bad and multicast packets.	Y
9	etherStatsMulticastPkts {etherStatsEntry 7}	R/O	[Standard] The number of multicast packets received, excluding bad and broadcast packets. [Implementation] The number of multicast packets sent and received, excluding bad and broadcast packets.	Y
10	etherStatsCRCAlignErrors {etherStatsEntry 8}	R/O	[Standard] The number of FCS error packets received. [Implementation] Same as the standard. (Received packets containing symbol errors are also included in accordance with the definition in *24.2.2.1.6* and *22.2.1.5* of IEEE 802.3-2005.)	Y
11	etherStatsUndersizePkts {etherStatsEntry 9}	R/O	[Standard] The number of short size packets (with a frame length of less than 64 octets) received. [Implementation] Same as the standard.	Y
12	etherStatsOversizePkts {etherStatsEntry 10}	R/O	[Standard] The number of oversized packets (with a frame length of more than 1,518 octets) received. [Implementation] Fixed value of `0`.	*
13	etherStatsFragments {etherStatsEntry 11}	R/O	[Standard] The number of short size packets (with a frame length of less than 64 octets) received that have an FCS or alignment error. [Implementation] Same as the standard.	Y
14	etherStatsJabbers {etherStatsEntry 12}	R/O	[Standard] The number of oversized packets (which exceed the maximum frame length) received that have an FCS or alignment error. [Implementation] Same as the standard.	Y
15	etherStatsCollisions {etherStatsEntry 13}	R/O	[Standard] The number of collisions. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
16	etherStatsPkts64Octets {etherStatsEntry 14}	R/O	[Standard] The number of packets received that have a frame length of 64 octets. [Implementation] The number of packets sent and received that have a frame length of 64 octets.	Y
17	etherStatsPkts65to127Octets {etherStatsEntry 15}	R/O	[Standard] The number of packets received that have a frame length of from 65 to 127 octets. [Implementation] The number of packets sent and received that have a frame length of from 65 to 127 octets.	Y
18	etherStatsPkts128to255Octets {etherStatsEntry 16}	R/O	[Standard] The number of packets received that have a frame length of from 128 to 255 octets. [Implementation] The number of packets sent and received that have a frame length of from 128 to 255 octets.	Y
19	etherStatsPkts256to511Octets {etherStatsEntry 17}	R/O	[Standard] The number of packets received that have a frame length of from 256 to 511 octets. [Implementation] The number of packets sent and received that have a frame length of from 256 to 511 octets.	Y
20	etherStatsPkts512to1023Octets {etherStatsEntry 18}	R/O	[Standard] The number of packets received that have a frame length of from 512 to 1023 octets. [Implementation] The number of packets sent and received that have a frame length of from 512 to 1023 octets.	Y
21	etherStatsPkts1024to1518Octets {etherStatsEntry 19}	R/O	[Standard] The number of packets received that have a frame length of from 1024 to 1518 octets. [Implementation] The number of packets sent and received that have a frame length of from 1024 to 1518 octets.	Y
22	etherStatsOwner {etherStatsEntry 20}	R/NC	[Standard] The real entity that makes up this entry and the owner who assigns the resource. [Implementation] Returns a response of the character string `system`. `Read_Only`.	Y
23	etherStatsStatus {etherStatsEntry 21}	R/NC	[Standard] The entry status: [Standard] The status of this entry: createRequest(2), underCreation(3), invalid(4)} [Implementation] Fixed value of valid (1). `Read_Only`.	Y

Note:

The frame length indicates the length starting from the MAC header and ending with the FCS field. For details about the frame format, see *13.1.3 Control on the MAC and LLC sublayers in the manual Configuration Guide Vol. 1*.

2.10.2 History Control group

(1) Identifiers

```
rmon OBJECT IDENTIFIER ::= {mib-2 16}
```

```
history OBJECT IDENTIFIER ::= {rmon 2}
Object ID value 1.3.6.1.2.1.16.2

historyControlTable OBJECT IDENTIFIER ::= {history 1}
Object ID value 1.3.6.1.2.1.16.2.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the History Control group.

Table 2-13 History Control group implementation specification

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	historyControlTable {history 1}	NA	[Standard] Ethernet statistics history control tables. [Implementation] Same as the standard.	Y
2	historyControlEntry {historyControlTable 1}	NA	[Standard] A list of Ethernet statistics history control tables. INDEX { historyControlIndex } [Implementation] Same as the standard. The list can contain no more than 32 entries.	Y
3	historyControlIndex {historyControlEntry 1}	R/O	[Standard] An Index value that indicates a specific historyControl entry. The value ranges from 1 to 65535. [Implementation] Same as the standard.	Y
4	historyControlDataSource {historyControlEntry 2}#	R/C	[Standard] The object ID of an interface associated with this information. This object instance is the ifIndex of the MIB-II interfaces group. [Implementation] Same as the standard.	Y
5	historyControlBucketsRequested {historyControlEntry 3}#	R/C	[Standard] The number of requested data buckets to be stored in etherHistoryTable. The default value is 50. The value ranges from 1 to 65535. [Implementation] Same as the standard.	Y
6	historyControlBucketsGranted {historyControlEntry 4}	R/O	[Standard] The number of granted data buckets to be stored in etherHistoryTable. The value ranges from 1 to 65535. [Implementation] This number is equal to the value of historyControlBucketsRequested. If the historyControlBucketsRequested value exceeds 50, this number is fixed at 50.	Y
7	historyControlInterval {historyControlEntry 5}#	R/C	[Standard] The sampling interval (in seconds) for the data to be stored in etherHistoryTable. The value ranges from 1 to 3600. The default is 1800. [Implementation] Same as the standard.	Y
8	historyControlOwner {historyControlEntry 6}#	R/C	[Standard] The real entity that makes up this entry and the owner who assigns the resource. [Implementation] A character string of no more than 24 characters can be read and written.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
9	historyControlStatus {historyControlEntry 7}	R/C	[Standard] The status of this entry. [Standard] The status of this entry: createRequest(2), underCreation(3), invalid(4)} [Implementation] To add this entry, set createRequest (2) first. Perform set for the MIB in this entry, and then set valid (1). To remove this entry, set invalid (4) first. Next, set createRequest (2), and then acquire this entry. A response of underCreation (3) is then returned. Next, set valid (1), and then acquire this entry. A response of valid (1) is then returned. ● valid (1): Statistics for the interface set in historyControlDataSource can be collected and sampled during the interval set in historyControlInterval. ● valid (4): Statistics for the interface cannot be collected or sampled during the interval set in historyInterval.	Y

#

This can also be set using the `rmon collection history` configuration command. When specifying a character string, the range of character codes that can be specified is the same as for console setting. While the SNMP manager is setting the entries (that is, entries are in the underCreation status), if those entries are changed from the console, the entries in the underCreation status are deleted.

2.10.3 Ethernet History group

(1) Identifiers

```
rmon OBJECT IDENTIFIER ::= {mib-2 16}

history OBJECT IDENTIFIER ::= {rmon 2}
Object ID value 1.3.6.1.2.1.16.2

etherHistoryTable OBJECT IDENTIFIER ::= {history 2}
Object ID value 1.3.6.1.2.1.16.2.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the Ethernet History group.

Table 2-14 Ethernet History group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	etherHistoryTable {history 2}	NA	[Standard] Ethernet statistics history tables. [Implementation] Same as the standard.	Y
2	etherHistoryEntry {etherHistoryTable 1}	NA	[Standard] A list of Ethernet statistics history tables. INDEX {etherHistoryIndex, etherHistorySampleIndex } [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
3	etherHistoryIndex {etherHistoryEntry 1}	R/O	[Standard] The same value as the historyControlIndex index value. The value ranges from 1 to 65535. [Implementation] Same as the standard.	Y
4	etherHistorySampleIndex {etherHistoryEntry 2}	R/O	[Standard] A unique sequence value from the same etherHistoryIndex entry is set, starting at 1. The value ranges from 1 to 2147483647. [Implementation] Same as the standard.	Y
5	etherHistoryIntervalStart {etherHistoryEntry 3}	R/O	[Standard] The time at which the statistics collection was started (in units of 1/100 seconds). [Implementation] Same as the standard.	Y
6	etherHistoryDropEvents {etherHistoryEntry 4}	R/O	[Standard] The number of packet drops that were detected during sampling. [Implementation] Same as the standard.	Y
7	etherHistoryOctets {etherHistoryEntry 5}	R/O	[Standard] The number of octets (bytes) that were received within a specific period of time. This number includes bad packets. [Implementation] The number of octets (bytes) that were sent and received within a specific period of time. Calculation of octet values is based on the range from the MAC header to the FCS field over the length of the frame.	Y
8	etherHistoryPkts {etherHistoryEntry 6}	R/O	[Standard] The total number of packets received within a specific period of time. This number includes bad, broadcast, and multicast packets. [Implementation] The total number of packets sent and received within a specific period of time.	Y
9	etherHistoryBroadcastPkts {etherHistoryEntry 7}	R/O	[Standard] The number of broadcast packets received within a specific period of time. This number does not include bad or multicast packets. [Implementation] The number of broadcast packets sent and received within a specific period of time.	Y
10	etherHistoryMulticastPkts {etherHistoryEntry 8}	R/O	[Standard] The number of multicast packets received within a specific period of time. This number does not include bad or broadcast packets. [Implementation] The number of multicast packets sent and received within a specific period of time.	Y
11	etherHistoryCRCAlignErrors {etherHistoryEntry 9}	R/O	[Standard] The number of FCS error packets received within a specific period of time. [Implementation] Same as the standard.	Y
12	etherHistoryUndersizePkts {etherHistoryEntry 10}	R/O	[Standard] The number of short size packets (with a frame length of less than 64 octets) received within a specific period of time. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
13	etherHistoryOversizePkts {etherHistoryEntry 11}	R/O	[Standard] The number of oversized packets (with a frame length of more than 1,518 octets) received within a specific period of time. [Implementation] The number of oversized packets (which exceed the maximum frame length) received within a specific period time.	Y
14	etherHistoryFragments {etherHistoryEntry 12}	R/O	[Standard] The number of short size packets (with a frame length of less than 64 octets) that were received within a specific period of time and have an FCS or alignment error. [Implementation] Same as the standard.	Y
15	etherHistoryJabbers {etherHistoryEntry 13}	R/O	[Standard] The number of oversized packets (which exceed the maximum frame length) that were received within a specific period of time and have an FCS or alignment error. [Implementation] Same as the standard.	Y
16	etherHistoryCollisions {etherHistoryEntry 14}	R/O	[Standard] The number of collisions that occur within a specific period of time. [Implementation] Same as the standard.	Y
17	etherHistoryUtilization {etherHistoryEntry 15}	R/O	[Standard] The estimated usage rate of the physical layer. The value ranges from 0 to 10000. [Implementation] Indicates the usage rate. The usage rate of a half-duplex line is estimated as follows: {number-of-packets x (9.6 + 6.4) + (number-of-octets x 0.8)} / {time-interval x line-speed} x 1000. The usage rate of a full-duplex line is estimated as follows: {number-of-packets x (9.6 + 6.4) + (number-of-octets x 0.8) / {{time-interval x line-speed} x 2} x 1000.	Y

2.10.4 Alarm group

(1) Identifiers

```
rmon OBJECT IDENTIFIER ::= {mib-2 16}

alarm OBJECT IDENTIFIER ::= {rmon 3}
Object ID value 1.3.6.1.2.1.16.3

alarmTable OBJECT IDENTIFIER ::= {alarm 1}
Object ID value 1.3.6.1.2.1.16.3.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the Alarm group.

Table 2-15 Alarm group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	alarmTable {alarm 1}	NA	[Standard] Alarm tables. [Implementation] Same as the standard.	Y
2	alarmEntry {alarmTable 1}	NA	[Standard] A list of alarm tables. INDEX { alarmIndex } [Implementation] Same as the standard. The list can contain no more than 128 entries.	Y
3	alarmIndex {alarmEntry 1}	R/O	[Standard] An ID that uniquely identifies a row entry in alarmTable. The value ranges from 1 to 65535. [Implementation] Same as the standard.	Y
4	alarmInterval {alarmEntry 2}#1	R/C	[Standard] The interval (in seconds) between threshold comparisons. The interval ranges from 1 to 2^{32} - 1. [Implementation] Same as the standard.#2	Y
5	alarmVariable {alarmEntry 3}#1	R/C	[Standard] The object identifier of the MIB to be sampled. [Implementation] Same as the standard.	Y
6	alarmSampleType {alarmEntry 4}#1	R/C	[Standard] Indicates the method for performing value and threshold comparison: [Implementation] Same as the standard. deltaValue(2)} [Implementation] Same as the standard.	Y
7	alarmValue {alarmEntry 5}	R/O	[Standard] A statistic from the previous sampling. [Implementation] Same as the standard.	Y
8	alarmStartupAlarm {alarmEntry 6}#1	R/C	[Standard] The timing for generating the first alarm: {risingAlarm(1), fallingAlarm(2), rising Or fallingAlarm(3)} [Implementation] Same as the standard.	Y
9	alarmRisingThreshold {alarmEntry 7}#1	R/C	[Standard] The upper threshold for the sampled statistic. [Implementation] Same as the standard.#2	Y
10	alarmFallingThreshold {alarmEntry 8}#1	R/C	[Standard] The lower threshold for the sampled statistic. [Implementation] Same as the standard.#2	Y
11	alarmRisingEventIndex {alarmEntry 9}#1	R/C	[Standard] The index number of the event group to be used when the upper threshold is exceeded. The value ranges from 0 to 65535. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
12	alarmFallingEventIndex {alarmEntry 10}#1	R/C	[Standard] The index number of the event group to be used when the lower threshold is exceeded. The value ranges from 0 to 65535. [Implementation] Same as the standard.	Y
13	alarmOwner {alarmEntry 11}#1	R/C	[Standard] The real entity that makes up this entry and the owner who assigns the resource. [Implementation] A character string of no more than 24 characters can be read and written.	Y
14	alarmStatus {alarmEntry 12}	R/C	[Standard] The status of this entry. [Implementation] To add this entry, set createRequest (2) first. Perform set for the MIB in this entry, and then set valid (1). To remove this entry, set invalid (4) first. Next, set createRequest (2), and then acquire this entry. A response of underCreation (3) is then returned. Next, set valid (1), and then acquire this entry. A response of valid (1) is then returned. ● valid (1):Information about the object set in alarmVariable can be sampled during the interval set in alarmInterval. ● invalid (4):The object set in alarmVariable does not exist. Or, the sampling attempted during the interval set in alarmIntervalhistoryInterval failed.	Y

#1

This can also be set using the `rmon alarm` configuration command. For the setting range, see the section about `rmon alarm` in the manual *Configuration Command Reference*. When specifying a character string, the range of character codes that can be specified is the same as for console setting. While the SNMP manager is setting the entries (that is, entries are in the underCreation status), if those entries are changed from the console, the entries in the underCreation status are deleted.

#2

If `2147483648` is set during configuration, `-2147483648` is shown, and the value increments by one. If `4294967295` is set, `-1` is shown.

2.10.5 Event group

(1) Identifiers

```
rmon OBJECT IDENTIFIER ::= {mib-2 16}

event OBJECT IDENTIFIER ::= {rmon 9}
Object ID value 1.3.6.1.2.1.16.9

eventTable OBJECT IDENTIFIER ::= {event 1}
Object ID value 1.3.6.1.2.1.16.9.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the Event group.

Table 2-16 Event group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	eventTable {event 1}	NA	[Standard] A table of events generated by RMON agents. [Implementation] Same as the standard.	Y
2	eventEntry {eventTable 1}	NA	[Standard] A list of events generated by RMON agents. INDEX { eventIndex } [Implementation] Same as the standard. The list can contain no more than 16 entries.	Y
3	eventIndex {eventEntry 1}	R/O	[Standard] The index value of the eventEntry list. This is equivalent to the logEventIndex value in the logEntry list. The value ranges from 1 to 65535. [Implementation] Same as the standard.	Y
4	eventDescription {eventEntry 2}#	R/C	[Standard] A description of this list. A character string of no more than 127 characters. [Implementation] A character string of no more than 79 characters.	Y
5	eventType {eventEntry 3}#	R/C	[Standard] The event notification method: {none(1), log(2), snmp-trap(3), log-and-trap(4)} [Implementation] Same as the standard.	Y
6	eventCommunity {eventEntry 4}#	R/C	[Standard] The community name of a trap issued when Trap is specified as eventType. A character string of no more than 127 characters. [Implementation] A character string of no more than 60 characters.	Y
7	eventLastTimeSent {eventEntry 5}	R/O	[Standard] The sysUpTime value for when the last event was generated (in units of 1/100 seconds). [Implementation] Same as the standard.	Y
8	eventOwner {eventEntry 6}#	R/C	[Standard] The real entity that makes up this entry and the owner who assigns a resource. No more than 127 characters. [Implementation] A character string of no more than 24 characters can be read and written.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
9	eventStatus {eventEntry 7}	R/C	[Standard] The status of this entry: [Standard] The status of this entry: createRequest(2), underCreation(3), invalid(4)} [Implementation] To add this entry, set createRequest (2) first. Perform set for the MIB in this entry, and then set valid (1). To remove this entry, set invalid (4) first. Next, set createRequest (2), and then acquire this entry. A response of underCreation (3) is then returned. Next, set valid (1), and then acquire this entry. A response of valid (1) is then returned.	Y
10	logTable {event 2}	NA	[Standard] A table of logged events. [Implementation] Same as the standard.	Y
11	logEntry {logTable 1}	NA	[Standard] A list of logged events. INDEX {logEventIndex, logIndex } [Implementation] Same as the standard. The list can contain no more than 128 entries.	Y
12	logEventIndex {logEntry 1}	R/O	[Standard] The index of an event that triggered the generation of this log. This value indicates the event that has the same eventIndex value. The value ranges from 1 to 65535. [Implementation] Same as the standard.	Y
13	logIndex {logEntry 2}	R/O	[Standard] The index of the log for the same event. The value ranges from 1 to 2147483647. [Implementation] Same as the standard.	Y
14	logTime {logEntry 3}	R/O	[Standard] The sysUpTime value for when this log list was generated. [Implementation] Same as the standard.	Y
15	logDescription {logEntry 4}	R/O	[Standard] A comment about the source event for this log list. A character string of no more than 255 characters. [Implementation] Returns a response containing a character string of no more than 72 characters.	Y

#

This can also be set using the `rmon event` configuration command. When specifying a character string, the range of character codes that can be specified is the same as for console setting. While the SNMP manager is setting the entries (that is, entries are in the underCreation status), if those entries are changed from the console, the entries in the underCreation status are deleted.

2.11 dot1dBridge group

The dot1dBridgegroup is described in the following documents:

- RFC1493.txt
- RFC2674

2.11.1 dot1dBase group

(1) Identifiers

```
dot1dBridge OBJECT IDENTIFIER ::= {mib-2 17}

dot1dBase OBJECT IDENTIFIER ::= {dot1dBridge 1}
Object ID value 1.3.6.1.2.1.17.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1dBase group.

Table 2-17 dot1dBase group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1dBaseBridgeAddress {dot1dBase 1}	R/O	[Standard] The MAC address of a bridge. [Implementation] Same as the standard.	Y
2	dot1dBaseNumPorts {dot1dBase 2}	R/O	[Standard] The number of ports on the bridge. [Implementation] Same as the standard.	Y
3	dot1dBaseType {dot1dBase 3}	R/O	[Standard] The bridging type supported by the bridge: {unknown(1), transparent-only(2), sourceroute-only(3), srt(4)} [Implementation] Fixed value of transparent-only (2).	Y
4	dot1dBasePortTable {dot1dBase 4}	NA	[Standard] A table of information about each bridge port. [Implementation] Same as the standard.	Y
5	dot1dBasePortEntry {dot1dBasePortTable 1}	NA	[Standard] A list of information about each bridge port. INDEX { dot1dBasePort } [Implementation] Same as the standard.	Y
6	dot1dBasePort {dot1dBasePortEntry 1}	R/O	[Standard] The port number of a port (1-65535). [Implementation] Same as the standard.	Y
7	dot1dBasePortIfIndex {dot1dBasePortEntry 2}	R/O	[Standard] The interface which corresponds to this port is the instance value of the object defined in MIB-II. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
8	dot1dBasePortCircuit {dot1dBasePortEntry 3}	R/O	[Standard] The identifier of the port with the same instance value set in the dot1dBasePortIfIndex. [Implementation] Fixed value of {0.0}	Y
9	dot1dBasePortDelayExceededDiscards {dot1dBasePortEntry 4}	R/O	[Standard] The total number of frames discarded due to a pass-through delay. [Implementation] Fixed value of 0.	*
10	dot1dBasePortMtuExceededDiscards {dot1dBasePortEntry 5}	R/O	[Standard] The total number of frames discarded due to a data overflow. [Implementation] Fixed value of 0.	*

2.11.2 dot1dStp group

(1) Identifiers

```
dot1dBridge OBJECT IDENTIFIER ::= {mib-2 17}

dot1dStp OBJECT IDENTIFIER ::= {dot1dBridge 2}
Object ID value 1.3.6.1.2.1.17.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1dStp group.

The dot1dStp group is valid only when it operates with Single Spanning Tree. For PVST+ implementations that do not use Rapid Spanning Tree, Multiple Spanning Tree, or Single Spanning Tree jointly, the object value of the dot1dStp group becomes dummy.

Only ports on which Single Spanning Tree operates are included in dot1dStpPortTable.

Table 2-18 dot1dStp group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1dStpProtocolSpecification {dot1dStp 1}	R/O	[Standard] The version of Spanning Tree run by the bridge: {unknown(1), decLb100(2), ieee8021d(3)} [Implementation] Fixed value of 3.	Y
2	dot1dStpPriority {dot1dStp 2}	R/NW	[Standard] The priority value of the bridge (0-65535). [Implementation] Same as the standard.	Y
3	dot1dStpTimeSinceTopologyChange {dot1dStp 3}	R/O	[Standard] The time (in units of 1/100 seconds) that has elapsed since a topology change occurred. [Implementation] Same as the standard.	Y
4	dot1dStpTopChanges {dot1dStp 4}	R/O	[Standard] The number of topology changes. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
5	dot1dStpDesignated Root {dot1dStp 5}	R/O	[Standard] A route bridge identification value held by the bridge. [Implementation] Same as the standard.	Y
6	dot1dStpRootCost {dot1dStp 6}	R/O	[Standard] A route path cost value held by the bridge. [Implementation] Same as the standard.	Y
7	dot1dStpRootPort {dot1dStp 7}	R/O	[Standard] A route port value held by the bridge. [Implementation] Same as the standard. A value of 0 indicates that no route port exists.	Y
8	dot1dStpMaxAge {dot1dStp 8}	R/O	[Standard] The maximum aging time (in units of 1/100 seconds) held by the bridge. [Implementation] Same as the standard.	Y
9	dot1dStpHelloTime {dot1dStp 9}	R/O	[Standard] The Hello time (in units of 1/100 seconds) held by the bridge. [Implementation] Same as the standard.	Y
10	dot1dStpHoldTime {dot1dStp 10}	R/O	[Standard] The Hold time (in units of 1/100 seconds) held by the bridge. [Implementation] Same as the standard.	Y
11	dot1dStpForwardDel ay {dot1dStp 11}	R/O	[Standard] The transfer delay time (in units of 1/100 seconds) held by the bridge. [Implementation] Same as the standard.	Y
12	dot1dStpBridgeMaxA ge {dot1dStp 12}	R/NW	[Standard] The maximum aging time (600-4000 in units of 1/100 seconds) set in the bridge. [Implementation] Same as the standard.	Y
13	dot1dStpBridgeHello Time {dot1dStp 13}	R/NW	[Standard] The Hello time (100-1,000 in units of 1/100 seconds) set in the bridge. [Implementation] Same as the standard.	Y
14	dot1dStpBridgeForw ardDelay {dot1dStp 14}	R/NW	[Standard] The transfer delay time (400-3,000 in units of 1/100 seconds) set in the bridge. [Implementation] Same as the standard.	Y
15	dot1dStpPortTable {dot1dStp 15}	NA	[Standard] A table of port information for the Spanning Tree Protocol. [Implementation] Same as the standard.	Y
16	dot1dStpPortEntry {dot1dStpPortTable 1}	NA	[Standard] A list of Spanning Tree Protocol status information for each port. INDEX { dot1dStpPort } [Implementation] Same as the standard.	Y
17	dot1dStpPort {dot1dStpPortEntry 1}	R/O	[Standard] The port number of a port under the Spanning Tree Protocol (1-65535). [Implementation] Same as the standard.	Y
18	dot1dStpPortPriority {dot1dStpPortEntry 2}	R/NW	[Standard] The priority of the port (0-255). [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
19	dot1dStpPortState {dot1dStpPortEntry 3}	R/O	[Standard] The current status of the port: {disabled(1), blocking(2), listening(3), learning(4), forwarding(5), broken(6)} [Implementation] For link-down ports, disabled (1) and broken (6) are not used.	Y
20	dot1dStpPortEnable {dot1dStpPortEntry 4}	R/NW	[Standard] The enabled or disabled status of the port: { enabled(1), disabled(2) } [Implementation] Same as the standard.	Y
21	dot1dStpPortPathCost {dot1dStpPortEntry 5}	R/NW	[Standard] The path cost value for the port (1-65535). [Implementation] 0-200000000. A value of 0 indicates that the port link is down.	Y
22	dot1dStpPortDesignatedRoot {dot1dStpPortEntry 6}	R/O	[Standard] The route bridge identifier in the configured BPDU. [Implementation] Same as the standard.	Y
23	dot1dStpPortDesignatedCost {dot1dStpPortEntry 7}	R/O	[Standard] The path cost value for the specified port. [Implementation] Same as the standard.	Y
24	dot1dStpPortDesignatedBridge {dot1dStpPortEntry 8}	R/O	[Standard] The bridge identifier for the specified bridge. [Implementation] Same as the standard.	Y
25	dot1dStpPortDesignatedPort {dot1dStpPortEntry 9}	R/O	[Standard] The port identifier for the specified bridge: (SIZE(2)) [Implementation] Same as the standard.	Y
26	dot1dStpPortForwardTransitions {dot1dStpPortEntry 10}	R/O	[Standard] The number of times the port state changed from learning to transferring. [Implementation] Same as the standard.	Y

2.11.3 dot1dTp group

(1) Identifiers

```
dot1dBridge OBJECT IDENTIFIER ::= {mib-2 17}

dot1dTp OBJECT IDENTIFIER ::= {dot1dBridge 4}
Object ID value 1.3.6.1.2.1.17.4
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1dTp group.

Table 2-19 dot1dTp group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1dTpLearnedEntryDiscards {dot1dTp 1}	R/O	[Standard] The number of forwarding entries discarded due to insufficient space in the forwarding database. [Implementation] Fixed value of 0.	*
2	dot1dTpAgingTime {dot1dTp 2}	R/NW	[Standard] The timeout time (10-1000000 seconds) before aging out a forwarding entry that was dynamically learned. [Implementation] Same as the standard. A value of 0 indicates that aging was disabled during configuration.	Y
3	dot1dTpFdbTable {dot1dTp 3}	NA	[Standard] A table of unicast entries that contain filtering information. [Implementation] Synthesizes the MAC address tables of all VLANs. When the same MAC address exists in multiple VLANs, lower-numbered VLANs have priority.	Y
4	dot1dTpFdbEntry {dot1dTpFdbTable 1}	NA	[Standard] A unicast MAC address that contains filtering information. INDEX { dot1dTpFdbAddress } [Implementation] Same as the standard.	Y
5	dot1dTpFdbAddress {dot1dTpFdbEntry 1}	R/O	[Standard] A unicast MAC address that contains filtering information. [Implementation] Same as the standard.	Y
6	dot1dTpFdbPort {dot1dTpFdbEntry 2}	R/O	[Standard] The port number of the port which sent a frame that has the same source address value as the corresponding instance value of dot1dTpFdbAddress. [Implementation] Same as the standard. However, static entries comply with the configuration.	Y
7	dot1dTpFdbStatus {dot1dTpFdbEntry 3}	R/O	[Standard] The status of the MAC address table: {other(1), invalid(2), learned(3), self(4), mgmt(5) } [Implementation] Same as the standard.	Y
8	dot1dTpPortTable {dot1dTp 4}	NA	[Standard] A table of information about all ports. [Implementation] Same as the standard.	Y
9	dot1dTpPortEntry {dot1dTpPortTable 1}	NA	[Standard] A list of information about each port. INDEX { dot1dTpPort } [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
10	dot1dTpPort {dot1dTpPortEntry 1}	R/O	[Standard] A port number (1-65535) that indicates the port associated with the management information in this entry. [Implementation] Same as the standard.	Y
11	dot1dTpPortMaxInfo {dot1dTpPortEntry 2}	R/O	[Standard] The maximum size of a send-and-receive information field for this port. [Implementation] Same as the standard.	Y
12	dot1dTpPortInFrames {dot1dTpPortEntry 3}	R/O	[Standard] The number of frames received by this port. [Implementation] Same as the standard.	Y
13	dot1dTpPortOutFrames {dot1dTpPortEntry 4}	R/O	[Standard] The number of frames sent by this port. [Implementation] Same as the standard.	Y
14	dot1dTpPortInDiscards {dot1dTpPortEntry 5}	R/O	[Standard] The number of valid frames that are received but discarded. [Implementation] Same as the standard.	Y
15	dot1dTpHCPortTable {dot1dTp 5}	NA	[Standard] A table of information about a high-capacity port. [Implementation] Same as the standard.	Y
16	dot1dTpHCPortEntry {dot1dTpHCPortTable 1}	NA	[Standard] A list of information about a high-capacity port. INDEX { dot1dTpPort } [Implementation] Same as the standard.	Y
17	dot1dTpHCPortInFrames {dot1dTpHCPortEntry 1}	R/O	[Standard] The number of frames received by the high-capacity port. [Implementation] Same as the standard.	Y
18	dot1dTpHCPortOutFrames {dot1dTpHCPortEntry 2}	R/O	[Standard] The number of frames sent by the high-capacity port. [Implementation] Same as the standard.	Y
19	dot1dTpHCPortInDiscards {dot1dTpHCPortEntry 3}	R/O	[Standard] The number of frames that are received but discarded by the high-capacity port. [Implementation] Same as the standard.	Y
20	dot1dTpPortOverflowTable {dot1dTp 6}	NA	[Standard] A table of overflow information for the high-capacity port. [Implementation] Same as the standard.	Y
21	dot1dTpPortOverflowEntry {dot1dTpPortOverflowTable 1}	NA	[Standard] A list of overflow information for the high-capacity port. INDEX { dot1dTpPort } [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
22	dot1dTpPortInOverflowFrames {dot1dTpPortOverflowEntry 1}	R/O	[Standard] The number of times the dot1dTpPortInFrames counter has overflowed. [Implementation] Fixed value of 0.	*
23	dot1dTpPortOutOverflowFrames {dot1dTpPortOverflowEntry 2}	R/O	[Standard] The number of times the dot1dTpPortOutFrames counter has overflowed. [Implementation] Fixed value of 0.	*
24	dot1dTpPortInOverflowDiscards {dot1dTpPortOverflowEntry 3}	R/O	[Standard] The number of times the dot1dTpPortInDiscards counter has overflowed. [Implementation] Fixed value of 0.	*

2.11.4 pBridgeMIB group

(1) Identifiers

```
dot1dBridge OBJECT IDENTIFIER ::= {mib-2 17}

pBridgeMIB OBJECT IDENTIFIER ::= {dot1dBridge 6}
Object ID value 1.3.6.1.2.1.17.6

pBridgeMIBObjects  OBJECT IDENTIFIER ::= {pBridgeMIB 1}
dot1dExtBase       OBJECT IDENTIFIER ::= {pBridgeMIBObjects 1}
dot1dPriority      OBJECT IDENTIFIER ::= {pBridgeMIBObjects 2}
dot1dGarp          OBJECT IDENTIFIER ::= {pBridgeMIBObjects 3}
dot1dGmrp          OBJECT IDENTIFIER ::= {pBridgeMIBObjects 4}
pBridgeConformance OBJECT IDENTIFIER ::= {pBridgeMIB 2}
pBridgeGroups      OBJECT IDENTIFIER ::= {pBridgeConformance 1}
pBridgeCompliances OBJECT IDENTIFIER ::= {pBridgeConformance 2}
```

(2) Implementation specifications

The following table shows the implementation specifications for the pBridgeMIB group.

Table 2-20 pBridgeMIB group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1dDeviceCapabilities {dot1dExtBase 1}	R/O	[Standard] IEEE 802.1D or 802.1Q options implemented in the device: {dot1dExtendedFilteringServices(0), dot1dTrafficClasses(1), dot1qStaticEntryIndividualPort(2), dot1qIVLCapable(3), dot1qSVLCapable(4), dot1qHybridCapable(5), dot1qConfigurablePvidTagging(6), dot1dLocalVlanCapable(7)} [Implementation] {dot1dTrafficClasses(1),dot1qIVLCapable(3),dot1qConfigurablePvidTagging(6)} Manager displays the value as text.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
2	dot1dTrafficClassesEnabled {dot1dExtBase 2}	R/NW	[Standard] The traffic class support status of the bridge: {true(1), false(2)} [Implementation] true(1)	Y
3	dot1dGmrpStatus {dot1dExtBase 3}	R/NW	[Standard] The GMRP status: {enabled(1),disabled(2)} [Implementation] disabled(2)	Y
4	dot1dPortCapabilitiesTable {dot1dExtBase 4}	NA	[Standard] A table of port capacity information. [Implementation] Same as the standard.	Y
5	dot1dPortCapabilitiesEntry {dot1dPortCapabilitiesTable 1}	NA	[Standard] A list of port capacity information. [Implementation] Same as the standard.	Y
6	dot1dPortCapabilities {dot1dPortCapabilitiesEntry 1}	R/O	[Standard] The IEEE 802.1D and 802.1Q status of the port: {dot1qDot1qTagging(0), dot1qConfigurableAcceptableFrameTypes(1), dot1qIngressFiltering(2)} [Implementation] dot1qIngressFiltering(2) Manager displays the value as text.	Y
7	dot1dPortPriorityTable {dot1dPriority 1}	NA	[Standard] A table of port priority information [Implementation] Same as the standard.	Y
8	dot1dPortPriorityEntry {dot1dPortPriorityTable 1}	NA	[Standard] A list of port priority information. [Implementation] Same as the standard.	Y
9	dot1dPortDefaultUserPriority {dot1dPortPriorityEntry 1}	R/NW	[Standard] The default ingress user priority for the port (0-7). [Implementation] 0	Y
10	dot1dPortNumTrafficClasses {dot1dPortPriorityEntry 2}	R/NW	[Standard] The ingress traffic class number for the port (1-8). [Implementation] 1	Y
11	dot1dTrafficClassTable {dot1dPriority 3}	NA	[Standard] A table of traffic class information. [Implementation] Same as the standard.	Y
12	dot1dTrafficClassEntry {dot1dTrafficClassTable 1}	NA	[Standard] A list of traffic class information. INDEX {dot1dBasePort, dot1dTrafficClassPriority} [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
13	dot1dTrafficClassPriority {dot1dTrafficClassEntry 1}	NA	[Standard] The priority of the traffic class (0-7). [Implementation] Same as the standard.	Y
14	dot1dTrafficClass {dot1dTrafficClassEntry 2}	R/NW	[Standard] The traffic class (0-7). [Implementation] Same as the standard.	Y

2.11.5 qBridgeMIB group

(1) Identifiers

```
dot1dBridge OBJECT IDENTIFIER ::= {mib-2 17}

qBridgeMIB OBJECT IDENTIFIER ::= {dot1dBridge 7}
Object ID value 1.3.6.1.2.1.17.7

qBridgeMIBObjects  OBJECT IDENTIFIER ::= {qBridgeMIB 1}
dot1qBase          OBJECT IDENTIFIER ::= {qBridgeMIBObjects 1}
dot1qTp            OBJECT IDENTIFIER ::= {qBridgeMIBObjects 2}
dot1qStatic        OBJECT IDENTIFIER ::= {qBridgeMIBObjects 3}
dot1qVlan          OBJECT IDENTIFIER ::= {qBridgeMIBObjects 4}
qBridgeConformance OBJECT IDENTIFIER ::= {qBridgeMIB 2}
qBridgeGroups      OBJECT IDENTIFIER ::= {qBridgeConformance 1}
qBridgeCompliances OBJECT IDENTIFIER ::= {qBridgeConformance 2}
dot1dPortPair      OBJECT IDENTIFIER ::= {dot1dBridge 10}
```

(2) Implementation specifications

The following table shows the implementation specifications for the qBridgeMIB group.

Table 2-21 qBridgeMIB group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1qVlanVersionNumber {dot1qBase 1}	R/O	[Standard] The version number of IEEE 802.1Q. {version1(1)} [Implementation] 1	Y
2	dot1qMaxVlanId {dot1qBase 2}	R/O	[Standard] The maximum number of IEEE 802.1Q VLAN IDs. [Implementation] 4094	Y
3	dot1qMaxSupportedVlans {dot1qBase 3}	R/O	[Standard] The maximum number of IEEE 802.1Q VLANs. [Implementation] 256	Y
4	dot1qNumVlans {dot1qBase 4}	R/O	[Standard] The current number of IEEE 802.1Q VLANs. [Implementation] Same as the standard.	Y
5	dot1qGvrpStatus {dot1qBase 5}	R/NW	[Standard] The management status of GVRP. [Implementation] disabled(2)	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
6	dot1qFdbTable {dot1qTp 1}	NA	[Standard] A table of MAC address tables. [Implementation] Not implemented.	N
7	dot1qFdbEntry {dot1qFdbTable 1}	NA	[Standard] A list of MAC address tables. INDEX { dot1qFdbId } [Implementation] Same as the standard.	Y
8	dot1qFdbId {dot1qFdbEntry 1}	NA	[Standard] The identifier of a MAC address table. [Implementation] Not implemented.	N
9	dot1qFdbDynamicCount {dot1qFdbEntry 2}	R/O	[Standard] The number of dynamic entries in the MAC address table. [Implementation] Not implemented.	N
10	dot1qTpFdbTable {dot1qTp 2}	NA	[Standard] A table of information about the transparent MAC address table. [Implementation] Same as the standard.#	Y
11	dot1qTpFdbEntry {dot1qTpFdbTable 1}	NA	[Standard] A list of information about the transparent MAC address table. INDEX {dot1qFdbId, dot1qTpFdbAddress } [Implementation] Same as the standard.#	Y
12	dot1qTpFdbAddress {dot1qTpFdbEntry 1}	NA	[Standard] Unicast MAC address in the transparent MAC address table. [Implementation] Same as the standard.#	Y
13	dot1qTpFdbPort {dot1qTpFdbEntry 2}	R/O	[Standard] A port number in the transparent MAC address table (0-65535) [Implementation] Same as the standard. However, static entries comply with the configuration.#	Y
14	dot1qTpFdbStatus {dot1qTpFdbEntry 3}	R/O	[Standard] The status of the MAC address table: {other(1), invalid(2), learned(3), self(4), mgmt(5)} [Implementation] Returns learned (3) for a dynamic entry. Returns mgmt (5) for a static entry or a dot1x entry.#	Y
15	dot1qTpGroupTable {dot1qTp 3}	NA	[Standard] A table of information about a transparent group. [Implementation] Not implemented.	N
16	dot1qTpGroupEntry {dot1qTpGroupTable 1}	NA	[Standard] A list of information about a transparent group. INDEX {dot1qVlanIndex, dot1qTpGroupAddress} [Implementation] Not implemented.	N

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
17	dot1qTpGroupAddress {dot1qTpGroupEntry 1}	NA	[Standard] A destination MAC address in the transparent group. [Implementation] Not implemented.	N
18	dot1qTpGroupEgressPorts {dot1qTpGroupEntry 2}	R/O	[Standard] The full set of ingress ports in the transparent group. [Implementation] Not implemented.	N
19	dot1qTpGroupLearnt {dot1qTpGroupEntry 3}	R/O	[Standard] A subset of learned ports in the transparent group. [Implementation] Not implemented.	N
20	dot1qForwardAllTable {dot1qTp 4}	NA	[Standard] A table of forwarding information for a VLAN that forwards all multicasts. [Implementation] Not implemented.	N
21	dot1qForwardAllEntry {dot1qForwardAllTable 1}	NA	[Standard] A list of forwarding information for a VLAN that forwards all multicasts. INDEX { dot1qVlanIndex } [Implementation] Not implemented.	N
22	dot1qForwardAllPorts {dot1qForwardAllEntry 1}	R/O	[Standard] The full set of VLAN ports that forward all multicast group addresses. [Implementation] Not implemented.	N
23	dot1qForwardAllStaticPorts {dot1qForwardAllEntry 2}	R/NW	[Standard] A set of static VLAN ports that forward all multicast group addresses. [Implementation] Not implemented.	N
24	dot1qForwardAllForbiddenPorts {dot1qForwardAllEntry 3}	R/NW	[Standard] A set of VLAN ports that do not forward any multicast group addresses. [Implementation] Not implemented.	N
25	dot1qForwardUnregisteredTable {dot1qTp 5}	NA	[Standard] A table of forwarding information for a VLAN that forwards unregistered multicast group addresses. [Implementation] Not implemented.	N
26	dot1qForwardUnregisteredEntry {dot1qForwardUnregisteredTable 1}	NA	[Standard] A list of forwarding information for a VLAN that forwards unregistered multicast group addresses. INDEX { dot1qVlanIndex } [Implementation] Not implemented.	N
27	dot1qForwardUnregisteredPorts {dot1qForwardUnregisteredEntry 1}	R/O	[Standard] The full set of VLAN ports that forward unregistered multicast group addresses. [Implementation] Not implemented.	N
28	dot1qForwardUnregisteredStaticPorts {dot1qForwardUnregisteredEntry 2}	R/NW	[Standard] A set of static VLAN ports that forward unregistered multicast group addresses. [Implementation] Not implemented.	N

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
29	dot1qForwardUnregisteredForbiddenPorts {dot1qForwardUnregisteredEntry 3}	R/NW	[Standard] A set of static VLAN ports that do not forward any unregistered multicast group addresses. [Implementation] Not implemented.	N
30	dot1qStaticUnicastTable {dot1qStatic 1}	NA	[Standard] A table of filtering information for static unicast MAC addresses. [Implementation] Not implemented.	N
31	dot1qStaticUnicastEntry {dot1qStaticUnicastTable 1}	NA	[Standard] A list of filtering information for static unicast MAC addresses. INDEX {dot1qFdbId, dot1qStaticUnicastAddress, dot1qStaticUnicastReceivePort } [Implementation] Not implemented.	N
32	dot1qStaticUnicastAddress {dot1qStaticUnicastEntry 1}	NA	[Standard] A destination MAC address for static unicast. [Implementation] Not implemented.	N
33	dot1qStaticUnicastReceivePort {dot1qStaticUnicastEntry 2}	NA	[Standard] The port number (0-65535) of a port that receives static unicast addresses. [Implementation] Not implemented.	N
34	dot1qStaticUnicastAllowedToGoTo {dot1qStaticUnicastEntry 3}	R/NW	[Standard] A set of ports that flood static unicast addresses. [Implementation] Not implemented.	N
35	dot1qStaticUnicastStatus {dot1qStaticUnicastEntry 4}	R/NW	[Standard] The entry status of a static unicast address: {other(1), invalid(2), permanent(3), deleteOnReset(4), deleteOnTimeout(5)} [Implementation] Not implemented.	N
36	dot1qStaticMulticastTable {dot1qStatic 2}	NA	[Standard] A table of filtering information for a VLAN that forwards static multicast and broadcast MAC addresses. [Implementation] Not implemented.	N
37	dot1qStaticMulticastEntry {dot1qStaticMulticastTable 1}	NA	[Standard] A list of filtering information for a VLAN that forwards static multicast and broadcast MAC addresses. INDEX {dot1qVlanIndex, dot1qStaticMulticastAddress, dot1qStaticMulticastReceivePort } [Implementation] Not implemented.	N

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
38	dot1qStaticMulticastAddress {dot1qStaticMulticastEntry 1}	NA	[Standard] A destination MAC address for static multicast or broadcast. [Implementation] Not implemented.	N
39	dot1qStaticMulticastReceivePort {dot1qStaticMulticastEntry 2}	NA	[Standard] The port number of a port that receives static multicast or broadcast MAC addresses (0-65535). [Implementation] Not implemented.	N
40	dot1qStaticMulticastStaticEgressPorts {dot1qStaticMulticastEntry 3}	R/NW	[Standard] A set of ports that forward static multicast or broadcast MAC addresses. [Implementation] Not implemented.	N
41	dot1qStaticMulticastForbiddenEgressPorts {dot1qStaticMulticastEntry 4}	R/NW	[Standard] A set of ports that do not forward static multicast or broadcast MAC addresses. [Implementation] Not implemented.	N
42	dot1qStaticMulticastStatus {dot1qStaticMulticastEntry 5}	R/NW	[Standard] The entry status of static multicast or broadcast: {other(1), invalid(2), permanent(3), deleteOnReset(4), deleteOnTimeout(5)} [Implementation] Not implemented.	N
43	dot1qVlanNumDeletes {dot1qVlan 1}	R/O	[Standard] The number of VLAN entry deletions. [Implementation] Same as the standard.	Y
44	dot1qVlanCurrentTable {dot1qVlan 2}	NA	[Standard] A table of the current configuration information for a VLAN. [Implementation] Same as the standard.	Y
45	dot1qVlanCurrentEntry {dot1qVlanCurrentTable 1}	NA	[Standard] A list of the current configuration information for a VLAN. INDEX {dot1qVlanTimeMark, dot1qVlanIndex} [Implementation] Same as the standard.	Y
46	dot1qVlanTimeMark {dot1qVlanCurrentEntry 1}	NA	[Standard] A time filter for entries. [Implementation] Same as the standard.	Y
47	dot1qVlanIndex {dot1qVlanCurrentEntry 2}	NA	[Standard] A VLAN ID. [Implementation] Same as the standard.	Y
48	dot1qVlanFdbId {dot1qVlanCurrentEntry 3}	R/O	[Standard] The ID of a MAC address table used by the VLAN. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
49	dot1qVlanCurrentEgressPorts {dot1qVlanCurrentEntry 4}	R/O	[Standard] A set of VLAN ports that send tagged frame traffic or untagged traffic. [Implementation] Same as the standard.	Y
50	dot1qVlanCurrentUntaggedPorts {dot1qVlanCurrentEntry 5}	R/O	[Standard] A set of VLAN ports that send untagged frame traffic. [Implementation] Same as the standard.	Y
51	dot1qVlanStatus {dot1qVlanCurrentEntry 6}	R/O	[Standard] The VLAN status: {other(1), permanent(2), dynamicGvrp(3)} [Implementation] Same as the standard.	Y
52	dot1qVlanCreationTime {dot1qVlanCurrentEntry 7}	R/O	[Standard] The sysUpTime value for when the VLAN was created. [Implementation] Same as the standard.	Y
53	dot1qVlanStaticTable {dot1qVlan 3}	NA	[Standard] A table of static configuration information for a VLAN. [Implementation] Same as the standard.	Y
54	dot1qVlanStaticEntry {dot1qVlanStaticTable 1}	NA	[Standard] A list of static configuration information for a VLAN. INDEX { dot1qVlanIndex } [Implementation] Same as the standard.	Y
55	dot1qVlanStaticName {dot1qVlanStaticEntry 1}	R/NC	[Standard] The static identification name of the VLAN. [Implementation] Same as the standard.	Y
56	dot1qVlanStaticEgressPorts {dot1qVlanStaticEntry 2}	R/NC	[Standard] A set of ports in the static egress list for the VLAN. [Implementation] Same as the standard.	Y
57	dot1qVlanForbiddenEgressPorts {dot1qVlanStaticEntry 3}	R/NC	[Standard] A set of ports that are forbidden from being registered in the VLAN egress list. [Implementation] Same as the standard.	Y
58	dot1qVlanStaticUntaggedPorts {dot1qVlanStaticEntry 4}	R/NC	[Standard] A set of untagged ports that send VLAN egress packets. [Implementation] Same as the standard.	Y
59	dot1qVlanStaticRowStatus {dot1qVlanStaticEntry 5}	R/NC	[Standard] The entry status. [Implementation] Same as the standard.	Y
60	dot1qNextFreeLocalVlanIndex {dot1qVlan 4}	R/O	[Standard] The next available VLAN index (0, or 4096-2147483647). [Implementation] 0 or 4096.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
61	dot1qPortVlanTable {dot1qVlan 5}	NA	[Standard] A table of VLAN configuration information for a port. [Implementation] Same as the standard.	Y
62	dot1qPortVlanEntry {dot1qPortVlanTable 1}	NA	[Standard] A list of VLAN configuration information for a port. [Implementation] Same as the standard.	Y
63	dot1qPvid {dot1qPortVlanEntry 1}	R/NW	[Standard] PVID VLAN ID assigned to untagged frames or Priority-Tagged frames. [Implementation] Same as the standard.	Y
64	dot1qPortAcceptableFrameTypes {dot1qPortVlanEntry 2}	R/NW	[Standard] Determines the frame type that can be received by the port: {admitAll(1), admitOnlyVlanTagged(2)} [Implementation] admitAll(1)	Y
65	dot1qPortIngressFiltering {dot1qPortVlanEntry 3}	R/NW	[Standard] Filters frames to the port. [Implementation] Same as the standard.	Y
66	Dot1qPortGvrpStatus {dot1qPortVlanEntry 4}	R/NW	[Standard] The GVRP status of the port. [Implementation] disabled(2)	Y
67	Dot1qPortGvrpFailedRegistrations {dot1qPortVlanEntry 5}	R/O	[Standard] The total number of port GVRP registrations that failed. [Implementation] Not implemented.	N
68	dot1qPortGvrpLastPduOrigin {dot1qPortVlanEntry 6}	R/O	[Standard] The source MAC address for the last GVRP received by the port. [Implementation] Not implemented.	N
69	dot1qPortVlanStatisticsTable {dot1qVlan 6}	NA	[Standard] A table of VLAN statistics for the port. [Implementation] Same as the standard.	Y
70	dot1qPortVlanStatisticsEntry {dot1qPortVlanStatisticsTable 1}	NA	[Standard] A list of VLAN statistics for the port. INDEX {dot1dBasePort, dot1qVlanIndex} [Implementation] Same as the standard.	Y
71	dot1qTpVlanPortInFrames {dot1qPortVlanStatisticsEntry 1}	R/O	[Standard] The number of valid frames received by the VLAN port. [Implementation] Fixed value of 0.	*
72	dot1qTpVlanPortOutFrames {dot1qPortVlanStatisticsEntry 2}	R/O	[Standard] The number of valid frames sent by the VLAN port. [Implementation] Fixed value of 0.	*

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
73	dot1qTpVlanPortInDiscards {dot1qPortVlanStatisticsEntry 3}	R/O	[Standard] The number of valid frames that are received but discarded by the VLAN port. [Implementation] Fixed value of 0.	*
74	dot1qTpVlanPortInOverflowFrames {dot1qPortVlanStatisticsEntry 4}	R/O	[Standard] The number of times the dot1qTpVlanPortInFrames counter overflowed. [Implementation] Fixed value of 0.	*
75	dot1qTpVlanPortOutOverflowFrames {dot1qPortVlanStatisticsEntry 5}	R/O	[Standard] The number of times the dot1qTpVlanPortOutFrames counter overflowed. [Implementation] Fixed value of 0.	*
76	dot1qTpVlanPortInOverflowDiscards {dot1qPortVlanStatisticsEntry 6}	R/O	[Standard] The number of times the dot1qTpVlanPortInDiscards counter overflowed. [Implementation] Fixed value of 0.	*
77	dot1qPortVlanHCStatisticsTable {dot1qVlan 7}	NA	[Standard] A table of VLAN high-capacity statistics for the port. [Implementation] Same as the standard.	Y
78	dot1qPortVlanHCStatisticsEntry {dot1qPortVlanHCStatisticsTable 1}	NA	[Standard] A list of VLAN high-capacity statistics for the port. INDEX {dot1dBasePort, dot1qVlanIndex} [Implementation] Same as the standard.	Y
79	dot1qTpVlanPortHCInFrames {dot1qPortVlanHCStatisticsEntry 1}	R/O	[Standard] The number of valid frames received by the VLAN port. [Implementation] Fixed value of 0.	*
80	dot1qTpVlanPortHCOutFrames {dot1qPortVlanHCStatisticsEntry 2}	R/O	[Standard] The number of valid frames sent by the VLAN port. [Implementation] Fixed value of 0.	*
81	dot1qTpVlanPortHCInDiscards {dot1qPortVlanHCStatisticsEntry 3}	R/O	[Standard] The number of valid frames that are received but discarded by the VLAN port. [Implementation] Fixed value of 0.	*
82	dot1qLearningConstraintsTable {dot1qVlan 8}	NA	[Standard] A table of learning constraints. [Implementation] This table is always empty due to the Switch specifications.	Y
83	dot1qLearningConstraintsEntry {dot1qLearningConstraintsTable 1}	NA	[Standard] A list of learning constraints. INDEX {dot1qConstraintVlan, dot1qConstraintSet} [Implementation] This table is always empty due to the Switch specifications.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
84	dot1qConstraintVlan {dot1qLearningConstraintsEntry 1}	NA	[Standard] A VLAN constrained by the entry. [Implementation] This table is always empty due to the Switch specifications.	Y
85	dot1qConstraintSet {dot1qLearningConstraintsEntry 2}	NA	[Standard] The constraint set identifier (0-65535). [Implementation] This table is always empty due to the Switch specifications.	Y
86	dot1qConstraintType {dot1qLearningConstraintsEntry 3}	R/NC	[Standard] The constraint type: {independent(1), shared(2)} [Implementation] This table is always empty due to the Switch specifications.	Y
87	dot1qConstraintStatus {dot1qLearningConstraintsEntry 4}	R/NC	[Standard] The constraint status. [Implementation] This table is always empty due to the Switch specifications.	Y
88	dot1qConstraintSetDefault {dot1qVlan 9}	R/NW	[Standard] The default value (0-65535) of the constraint set. [Implementation] 0	Y
89	dot1qConstraintTypeDefault {dot1qVlan 10}	R/NW	[Standard] The constraint set type: {independent(1), shared(2)} [Implementation] Fixed value of independent (1).	Y

#

If this information is collected immediately after executing the `clear mac-address-table` command, the information in `mac-address-table` might not be shown as cleared.

2.12 ifMIB group (interfaces group MIB)

The ifMIB group is described in the following document:

- RFC2233(November 1997)

2.12.1 ifMIB

(1) Identifiers

```
ifMIB OBJECT IDENTIFIER ::= {mib-2 31}

ifMIBObjects OBJECT IDENTIFIER ::= {ifMIB 1}
Object ID value 1.3.6.1.2.1.31.1
```

(2) Implementation specifications

The following table lists the implementation specifications of the ifMIB group when using Ethernet.

Table 2-22 ifMIB group implementation specifications (when Ethernet is used)

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	ifXTable {ifMIBObjects 1}	NA	[Standard] A table of objects that are added to an interface entity. [Implementation] Same as the standard.	Y
2	ifXEntry {ifXTable 1}	NA	[Standard] A list of interface information that is added. AUGMENTS {ifEntry} [Implementation] Same as the standard.	Y
3	ifName {ifXEntry 1}	R/O	[Standard] The name of the interface. [Implementation] A fixed value for each interface.	Y
4	ifInMulticastPkts {ifXEntry 2}	R/O	[Standard] The number of multicast packets sent to the upper layer protocol. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
5	ifInBroadcastPkts {ifXEntry 3}	R/O	[Standard] The number of broadcast packets sent to the upper layer protocol. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
6	ifOutMulticastPkts {ifXEntry 4}	R/O	[Standard] The number of multicast packets sent by the upper layer. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
7	ifOutBroadcastPkts {ifXEntry 5}	R/O	[Standard] The number of broadcast packets sent by the upper layer. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
8	ifHCInOctets {ifXEntry 6}	R/O	[Standard] The number of octets received by this interface. A 64-bit version of ifInOctets. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:The total number of octets received whose frame length is from the DA field of the MAC header to the FCS field ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation:The total number of received octets whose frame length is from the DA field of the MAC header to the FCS field	Y
9	ifHCInUcastPkts {ifXEntry 7}	R/O	[Standard] The number of unicast packets sent to the higher-level protocol. A 64-bit version of ifInUcastPkts. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
10	ifHCInMulticastPkts {ifXEntry 8}	R/O	[Standard] The number of multicast packets sent to the upper layer protocol. A 64-bit version of ifInMulticastPkts. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
			● When the ifIndex indicates a link aggregation: Same as the standard	
11	ifHCInBroadcastPkts {ifXEntry 9}	R/O	[Standard] The number of broadcast packets sent to the upper layer protocol. A 64-bit version of ifInBroadcastPkts. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
12	ifHCOutOctets {ifXEntry 10}	R/O	[Standard] The number of octets sent by this interface. A 64-bit version of ifOutOctets. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: The total number of octets sent whose frame length is from the DA field of the MAC header to the FCS field ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation:The total number of octets sent whose frame length is from the DA field of the MAC header to the FCS field	Y
13	ifHCOutUcastPkts {ifXEntry 11}	R/O	[Standard] The number of unicast packets sent by the higher-level layer. A 64-bit version of ifOutUcastPkts. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	*
14	ifHCOutMulticastPkts {ifXEntry 12}	R/O	[Standard] The number of multicast packets sent by the upper layer. A 64-bit version of ifOutMulticastPkts. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
15	ifHCOutBroadcastPkts {ifXEntry 13}	R/O	[Standard] The number of broadcast packets sent by the upper layer. A 64-bit version of ifOutBroadcastPkts. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Same as the standard	Y
16	ifLinkUpDownTrapEnable {ifXEntry 14}	R/NW	[Standard] Indicates whether this interface sends LinkUp and LinkDown traps: {enable(1), disable(2)} [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Same as the standard ● When the ifIndex indicates a VLAN: Same as the standard ● When the ifIndex indicates a link aggregation: Same as the standard	Y
17	ifHighSpeed {ifXEntry 15}	R/O	[Standard] The current line speed (in Mbit/s) of this interface. Fractions are rounded off to the nearest megabit per second. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:If no bandwidth is set by using a configuration command, the line speed of the interface in question is shown. If a bandwidth has been set, the set bandwidth is shown. ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation:The total line speed of the physical ports used in the link aggregation is shown.	Y
18	ifPromiscuousMode {ifXEntry 16}	R/O	[Standard] Receive mode: {true(1), false(2)} [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:true(1). ● When the ifIndex indicates a VLAN:false(2). ● When the ifIndex indicates a link aggregation:true(1).	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
19	ifConnectorPresent {ifXEntry 17}	R/O	[Standard] The connection status of the physical line: {true(1), false(2)} [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port:true(1). ● When the ifIndex indicates a VLAN:false(2). ● When the ifIndex indicates a link aggregation:false(2).	Y
20	ifAlias {ifXEntry 18}	R/NW	[Standard] An alias name defined by Network Manager. [Implementation] Additional information that is set for each interface during configuration.	Y
21	ifCounterDiscontinuityTime {ifXEntry 19}	R/O	[Standard] The sysUpTime when the counter was discontinued. [Implementation] Depends on the interface as follows: ● When the ifIndex indicates a port: Fixed value of 0 ● When the ifIndex indicates a VLAN: Fixed value of 0 ● When the ifIndex indicates a link aggregation: Fixed value of 0	*

2.13 powerEthernetMIB group (Power Ethernet MIB) [AX2200S] [AX1240S]

The ipv6MIBgroup is described in the following document:

- RFC3621 (The Definitions of Managed Objects for the Power Sourcing Equipment)

(1) Identifiers

```
powerEthernetMIB OBJECT IDENTIFIER ::= {mib-2 105}

pethObjects             OBJECT IDENTIFIER ::= {powerEthernetMIB 1}
Object ID value: 1.3.6.1.2.1.105.1

pethPsePortObjects      OBJECT IDENTIFIER ::= {pethObjects 1}
Object ID value: 1.3.6.1.2.1.105.1.1

pethMainPseObjects      OBJECT IDENTIFIER ::= {pethObjects 3}
Object ID value: 1.3.6.1.2.1.105.1.3

pethNotificationControl OBJECT IDENTIFIER ::= {pethObjects 4}
Object ID value: 1.3.6.1.2.1.105.1.4
```

(2) Implementation specifications

The following table shows the implementation specifications for the pethPsePortObjet group.

Table 2-23 pethPsePortObjects group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	pethPsePortTable {pethObjects 1}	NA	[Standard] Displays and controls the power characteristics of the ports on a power supply. [Implementation] Same as the standard.	Y
2	pethPsrPortEntry {pethPsePortTable 1}	NA	[Standard] A list of information about the ports on each power supply. INDEX { pethPsePortGroupIndex } [Implementation] Same as the standard.	Y
3	pethPsePortGroupIndex {pethPsePortEntry 1}	NA	[Standard] An identifier that indicates the group which contains a connecting port. [Implementation] Fixed value of 1.	Y
4	pethPsePortIndex {pethPsePortEntry 2}	NA	The identifier of the port in pethPsePortGroupIndex. [Implementation] Same as the standard.	Y
5	pethPsePortAdminEnable {pethPsePortEntry 3}	R/NW	Indicates whether the power supply functionality is enabled or disabled: true(1):Enabled false(2):Disabled [Implementation] Same as the standard. Fixed value of true (1).	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
6	pethPsePortPowerPairsControlAbility {pethPsePortEntry 4}	R/O	[Standard] Indicates whether power supply pairs can be switched: true(1):Allowed false(2):Not allowed [Implementation] Fixed value of false (2) because the type of power supply pairs is specified as pattern A, which prohibits switching.	Y
7	pethPsePortPowerPairs {pethPsePortEntry 5}	R/NW	[Standard] The type of power supply pairs: signal(1):Use pairs for data transfer (pattern A). spare(2):Use spare pairs (pattern B). [Implementation] Fixed value of signal (1) because the type of power supply pairs is specified as pattern A.	Y
8	pethPsePortDetectionStatus {pethPsePortEntry 6}	R/O	[Standard] The detection status of a power receiving switch: disabled(1):DISABLED deliveringPower(3):POWER_ON searching(2):Status other than the above [Implementation] Same as the standard.	Y
9	pethPsePortPowerPriority {pethPsePortEntry 7}	R/NW	[Standard] The power management priority of a port: critical(1) high(2) low(3) [Implementation] Same as the standard. However, when pethPsePortDetectionStatus is disabled(1), high(2) is set.	Y
10	pethPsePortMPSAbsentCounter {pethPsePortEntry 8}	R/O	[Standard] This counter is incremented when the status of the power receiving switch directly changes from POWER_ON to IDLE due to a no response timeout on the switch. [Implementation] Fixed value of 0.	Y
11	pethPsePortType {pethPsePortEntry 9}	R/NW	[Standard] The type of the switch connected to the port. [Implementation] Fixed value of NULL.	Y
12	pethPsePortPowerClassifications {pethPsePortEntry 10}	R/O	[Standard] The power class of the port. This object is only valid when the value of pethPsePortDetectionStatus is deliveringPower (3). class0(1) class1(2) class2(3) class3(4) class4(5) [Implementation] Same as the standard. However, class0 (1) is set except when pethPsePortDetectionStatus is deliveringPower (3).	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
13	pethPsePortInvalidSignatureCounter {pethPsePortEntry 11}	R/O	[Standard] This counter incremented when the status of the switch changes to SIGNATURE_INVALID. [Implementation] Fixed value of 0.	Y
14	pethPsePortPowerDeniedCounter {pethPsePortEntry 12}	R/O	[Standard] This counter is incremented when the status of the switch changes to POWER_DENIED. [Implementation] Fixed value of 0.	Y
15	pethPsePortOverLoadCounter {pethPsePortEntry 13}	R/O	[Standard] This counter is incremented when the status of the switch changes to ERROR_DELAY_OVER. [Implementation] Fixed value of 0.	Y
16	pethPsePortShortCounter {pethPsePortEntry 14}	R/O	[Standard] This counter is incremented when the status of the switch changes to ERROR_DELAY_SHORT. [Implementation] Fixed value of 0.	Y

The following table shows the implementation specifications for the pethMainPseObjet group.

Table 2-24 pethMainPseObjects group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	pethMainPseTable {pethMainPseObjects 1}	NA	[Standard] A table that contains the main power supply information for a power supply. [Implementation] Same as the standard.	Y
2	pethMainPseEntry {pethPsePortTable 1}	NA	[Standard] A list that contains the main power supply information for a power supply. INDEX { pethMainPseGroupIndex } [Implementation] Same as the standard.	Y
3	pethMainPseGroupIndex {pethMainPseEntry 1}	NA	[Standard] The identifier (1-2147483647) of the power supply group that is connected. [Implementation] Same as the standard.	Y
4	pethMainPsePower {pethMainPseEntry 2}	R/O	[Standard] The total power (1-65,535 watts) of the power supply. [Implementation] Same as the standard.	Y
5	pethMainPseOperStatus {pethMainPseEntry 3}	R/O	[Standard] The control status of the main power supply: on(1) off(2) fault(3) [Implementation] Fixed value of on(1).	Y
6	pethMainPseConsumptionPower {pethMainPseEntry 4}	R/O	[Standard] The power consumption (0-65,535 watts). [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
7	pethMainPseUsageThreshold {pethMainPseEntry 5}	R/NW	[Standard] The power consumption threshold (1-65,535 watts). If the threshold is exceeded, an alarm is reported. [Implementation] Fixed value of 90.	Y

The following table shows the implementation specifications for the pethNotificationControl group.

Table 2-25 pethNotificationControl group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	pethNotificationControlTable {pethNotificationControl 1}	NA	[Standard] Displays and controls notification information from a power supply. [Implementation] Same as the standard.	Y
2	pethNotificationControlEntry {pethNotificationControlTable 1}	NA	[Standard] Notification event information entries. [Implementation] Same as the standard.	Y
3	pethNotificationControlGroupIndex {pethNotificationControlEntry 1}	NA	[Standard] A notification information group entry (1-2,147,483,647). [Implementation] Same as the standard.	Y
4	pethNotificationControlEnable {pethNotificationControlEntry 2}	R/NW	[Standard] Indicates whether the notification functionality can be controlled true(1):Allowed false(2):Not allowed [Implementation] Same as the standard.	Y

2.14 IEEE 8021-CFM-MIB group

2.14.1 dot1agCfmStack group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmStack OBJECT IDENTIFIER ::= {dot1agMIBObjects 1}

dot1agCfmStackTable OBJECT IDENTIFIER ::= {dot1agCfmStack 1}
Object ID value 1.3.111.2.802.1.1.8.1.1.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmStack group.

Table 2-26 dot1agCfmStack group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmStackTable {dot1agCfmStack 1 }	NA	[Standard] Interface information that is specified for an MP. [Implementation] Same as the standard.	Y
2	dot1agCfmStackEntry {dot1agCfmStackTable 1 }	NA	[Standard] A stack table entry. INDEX { dot1agCfmStackifIndex, dot1agCfmStackVlanIdOrNone, dot1agCfmStackMdLevel, dot1agCfmStackDirection } [Implementation] Same as the standard.	Y
3	dot1agCfmStackifIndex {dot1agCfmStackEntry 1}	NA	[Standard] Indicates a port at the MEP. [Implementation] Same as the standard.	Y
4	dot1agCfmStackVlanIdOrNone { dot1agCfmStackEntry 2}	NA	[Standard] VLAN ID assigned to the MP. [Implementation] Same as the standard.	Y
5	dot1agCfmStackMdLevel { dot1agCfmStackEntry 3}	NA	[Standard] The domain level of the MP. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
6	dot1agCfmStackDirection { dot1agCfmStackEntry 4}	NA	[Standard] The direction of the MP. [Implementation] Same as the standard.	Y
7	dot1agCfmStackMdIndex { dot1agCfmStackEntry 5}	R/O	[Standard] The domain index in the dot1agCfmMdTable. [Implementation] Same as the standard.	Y
8	dot1agCfmStackMaIndex {dot1agCfmStackEntry 6}	R/O	[Standard] The MA index in the dot1agCfmMaNetTable and dot1agCfmMaCompTable. [Implementation] Same as the standard.	Y
9	dot1agCfmStackMepId {dot1agCfmStackEntry 7}	R/O	[Standard] The MEP ID. [Implementation] Same as the standard.	Y
10	dot1agCfmStackMacAddress { dot1agCfmStackEntry 8}	R/O	[Standard] The MAC address of the MP. [Implementation] Same as the standard.	Y

2.14.2 dot1agCfmVlan group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmVlan OBJECT IDENTIFIER ::= {dot1agMIBObjects 3}

dot1agCfmVlanTable OBJECT IDENTIFIER ::= {dot1agCfmVlan 1}
Object ID value 1.3.111.2.802.1.1.8.1.3.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmVlan group.

Table 2-27 dot1agCfmVlan group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmVlanTable { dot1agCfmVlan 1 }	NA	[Standard] Defines a VLAN association. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
2	dot1agCfmVlanEntry { dot1agCfmVlanTable 1 }	NA	[Standard] A VLAN table entry. INDEX { dot1agCfmVlanComponentId, dot1agCfmVlanVid } [Implementation] Same as the standard.	Y
3	dot1agCfmVlanComponentId { dot1agCfmVlanEntry 1}	NA	[Standard] A component in the system to which the dot1agCfmVlanEntry information is to be applied. [Implementation] Same as the standard.	Y
4	dot1agCfmVlanVid { dot1agCfmVlanEntry 2 }	NA	[Standard] A VLAN in the MA VLAN group. This is not the primary VLAN. [Implementation] Same as the standard.	Y
5	dot1agCfmVlanPrimaryVid { dot1agCfmVlanEntry 3 }	R/NC	[Standard] The primary VLAN ID. [Implementation] Same as the standard. Read_Only.	Y
6	dot1agCfmVlanRowStatus { dot1agCfmVlanEntry 4 }	R/NC	[Standard] The table status. active(1) notInService(2) [Implementation] Same as the standard. Read_Only.	Y

2.14.3 dot1agCfmMd group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}

dot1agCfmMd OBJECT IDENTIFIER ::= {dot1agMIBObjects 5}
Object ID value  1.3.111.2.802.1.1.8.1.5

dot1agCfmMdTable OBJECT IDENTIFIER ::= {dot1agCfmMd 2}
Object ID value 1.3.111.2.802.1.1.8.1.5.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmMd group.

Table 2-28 dot1agCfmMd group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmMdTableNextIndex { dot1agCfmMd 1 }	R/O	[Standard] An index used to generate a dot1agCfmMdTable. [Implementation] Fixed value of 0.	Y
2	dot1agCfmMdTable { dot1agCfmMd 2 }	NA	[Standard] A domain table. [Implementation] Same as the standard.	Y
3	dot1agCfmMdEntry { dot1agCfmMdTable 1 }	NA	[Standard] An entry for a domain table. INDEX { dot1agCfmMdIndex } [Implementation] Same as the standard.	Y
4	dot1agCfmMdIndex { dot1agCfmMdEntry 1 }	NA	[Standard] A domain table index. [Implementation] Same as the standard.	Y
5	dot1agCfmMdFormat { dot1agCfmMdEntry 2 }	R/NC	[Standard] Domain name type. ● none (1) ● dnsLikeName (2) ● macAddressAndUint (3) ● charString (4) [Implementation] Same as the standard. Read_Only.	Y
6	dot1agCfmMdName { dot1agCfmMdEntry 3 }	R/NC	[Standard] Domain name. [Implementation] Same as the standard. Read_Only.	Y
7	dot1agCfmMdMdLevel { dot1agCfmMdEntry 4 }	R/NC	[Standard] Domain level. [Implementation] Same as the standard. Read_Only.	Y
8	dot1agCfmMdMhfCreation { dot1agCfmMdEntry 5 }	R/NC	[Standard] Indicates whether a MHF(MIP) can be generated. ● defMHFnone (1) ● defMHFdefault (2) ● defMHFexplicit (3) [Implementation] Fixed value of defMHFexplicit (3). Read_Only.	Y
9	dot1agCfmMdMhfIdPermission { dot1agCfmMdEntry 6 }	R/NC	[Standard] A value contained in the Sender ID TLV. ● sendIdNone (1) ● sendIdChassis (2) ● sendIdManage (3) ● sendIdChassisManage (4) [Implementation] Fixed value of sendIdChassis (2). Read_Only.	Y
10	dot1agCfmMdMaNextIndex { dot1agCfmMdEntry 7 }	R/O	[Standard] An index value used to generate dot1agCfmMaNetTable and dot1agCfmMaCompTable. [Implementation] Fixed value of 0.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
11	dot1agCfmMdRowStatus { dot1agCfmMdEntry 8 }	R/NC	[Standard] The table status. ● active(1) ● notInService(2) [Implementation] Fixed value of active (1). Read_Only.	Y

2.14.4 dot1agCfmMaNet group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmMa OBJECT IDENTIFIER ::= {dot1agMIBObjects 6}

dot1agCfmMaNetTable OBJECT IDENTIFIER ::= {dot1agCfmMa 1}
Object ID value 1.3.111.2.802.1.1.8.1.6.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmMaNet group.

Table 2-29 dot1agCfmMaNet group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmMaNetTable { dot1agCfmMa 1 }	NA	[Standard] An MA table. [Implementation] Same as the standard.	Y
2	dot1agCfmMaNetEntry { dot1agCfmMaNetTable 1 }	NA	[Standard] An MA table entry. INDEX {dot1agCfmMdIndex, dot1agCfmMaIndex } [Implementation] Same as the standard.	Y
3	dot1agCfmMaIndex { dot1agCfmMaNetEntry 1}	NA	[Standard] The MA table index. [Implementation] Same as the standard.	Y
4	dot1agCfmMaNetFormat { dot1agCfmMaNetEntry 2 }	R/NC	[Standard] The MA name type. ● ieeeReserved(0) ● primaryVid(1) ● charString(2) ● unsignedInt16 (3) ● rfc2865VpnId(4) [Implementation] This Switch returns a value from 1 to 3. Read_Only.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
5	dot1agCfmMaNetName { dot1agCfmMaNetEntry 3 }	R/NC	[Standard] An MA name. [Implementation] Same as the standard. Read_Only.	Y
6	dot1agCfmMaNetCcmInterval { dot1agCfmMaNetEntry 4 }	R/NC	[Standard] The time interval between CCM transmissions. ● intervalInvalid (0) ● interval300Hz (1) ● interval10ms (2) ● interval100ms (3) ● interval1s (4) ● interval10s (5) ● interval1min (6) ● interval10min (7) [Implementation] This Switch returns a value from 4 to 7. Read_Only.	Y
7	dot1agCfmMaNetRowStatus { dot1agCfmMaNetEntry 5 }	R/NC	[Standard] The table status. ● active(1) ● notInService(2) [Implementation] Fixed value of active (1). Read_Only.	Y

2.14.5 dot1agCfmMaComp group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org OBJECT 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmMa OBJECT IDENTIFIER ::= {dot1agMIBObjects 6}

dot1agCfmMaCompTable OBJECT IDENTIFIER ::= {dot1agCfmMa 2}
Object ID value 1.3.111.2.802.1.1.8.1.6.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmMaComp group.

Table 2-30 dot1agCfmMaComp group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmMaCompTable { dot1agCfmMa 2 }	NA	[Standard] An MA table. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
2	dot1agCfmMaCompEntry { dot1agCfmMaCompTable 1 }	NA	[Standard] An MA table entry. INDEX {dot1agCfmMaComponentId, dot1agCfmMdIndex, dot1agCfmMaIndex } [Implementation] Same as the standard.	Y
3	dot1agCfmMaComponentId { dot1agCfmMaCompEntry 1 }	NA	[Standard] A component in the system to which the dot1agCfmMaCompEntry information is to be applied. [Implementation] Same as the standard.	Y
4	dot1agCfmMaCompPrimaryVlanId { dot1agCfmMaCompEntry 2 }	R/NC	[Standard] The primary VLAN ID. [Implementation] Same as the standard. Read_Only.	Y
5	dot1agCfmMaCompMhfCreation { dot1agCfmMaCompEntry 3 }	R/NC	[Standard] The MIP generation condition in the MA. ● defMHFnone (1) ● defMHFdefault (2) ● defMHFexplicit (3) ● defMHFdefer (4) [Implementation] defMHFexplicit (3) for this Switch. Read_Only.	Y
6	dot1agCfmMaCompIdPermission { dot1agCfmMaCompEntry 4 }	R/NC	[Standard] The Sender ID TLV. ● sendIdNone (1) ● sendIdChassis (2) ● sendIdManage (3) ● sendIdChassisManage (4) [Implementation] Fixed value of sendIdChassis (2). Read_Only.	Y
7	dot1agCfmMaCompNumberOfVids { dot1agCfmMaCompEntry 5 }	R/NC	[Standard] The number of VLANs in the MA. [Implementation] Same as the standard. Read_Only.	Y
8	dot1agCfmMaCompRowStatus { dot1agCfmMaCompEntry 6 }	R/NC	[Standard] The table status. ● active(1) ● notInService(2) [Implementation] Fixed value of active (1). Read_Only.	Y

2.14.6 dot1agCfmMaMepList group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
```

```
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmMa OBJECT IDENTIFIER ::= {dot1agMIBObjects 6}

dot1agCfmMaMepListTable OBJECT IDENTIFIER ::= {dot1agCfmMa 3}
Object ID value 1.3.111.2.802.1.1.8.1.6.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmMaMepList group.

Table 2-31 dot1agCfmMaMepList group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmMaMepListTable { dot1agCfmMa 3 }	NA	[Standard] A list of MEP ID that belong to a MA. [Implementation] Same as the standard.	Y
2	dot1agCfmMaMepListEntry { dot1agCfmMaMepListTable 1 }	NA	[Standard] A MEP table entry. INDEX { dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMaMepListIdentifier } [Implementation] Same as the standard.	Y
3	dot1agCfmMaMepListIdentifier { dot1agCfmMaMepListEntry 1 }	NA	[Standard] The MEP ID. [Implementation] Same as the standard.	Y
4	dot1agCfmMaMepListRowStatus { dot1agCfmMaMepListEntry 2 }	R/NC	[Standard] The table status. ● active(1) ● notInService(2) [Implementation] Same as the standard. Read_Only.	Y

2.14.7 dot1agCfmMep group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmMep OBJECT IDENTIFIER ::= {dot1agMIBObjects 7}

dot1agCfmMepTable OBJECT IDENTIFIER ::= {dot1agCfmMep 1}
Object ID value 1.3.111.2.802.1.1.8.1.7.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmMep group.

Table 2-32 dot1agCfmMep group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmMepTable { dot1agCfmMep 1 }	NA	[Standard] A MEP table. [Implementation] Same as the standard.	Y
2	dot1agCfmMepEntry { dot1agCfmMepTable 1 }	NA	[Standard] A MEP table entry. INDEX { dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMepIdentifier } [Implementation] Same as the standard.	Y
3	dot1agCfmMepIdentifier { dot1agCfmMepEntry 1}	NA	[Standard] The MEP ID. [Implementation] Same as the standard.	Y
4	dot1agCfmMepIfIndex { dot1agCfmMepEntry 2 }	R/NC	[Standard] The ifIndex of an interface for which the MEP is defined. [Implementation] Same as the standard. `Read_Only`.	Y
5	dot1agCfmMepDirection { dot1agCfmMepEntry 3 }	R/NC	[Standard] The MEP direction. ● down(1) ● up(2) [Implementation] Same as the standard. `Read_Only`.	Y
6	dot1agCfmMepPrimaryVid { dot1agCfmMepEntry 4 }	R/NC	[Standard] The primary VLAN ID of the MEP. [Implementation] Same as the standard. `Read_Only`.	Y
7	dot1agCfmMepActive { dot1agCfmMepEntry 5 }	R/NC	[Standard] The MEP status. ● true(1) ● false(2) [Implementation] Same as the standard. `Read_Only`.	Y
8	dot1agCfmMepFngState { dot1agCfmMepEntry 6 }	R/O	[Standard] The MEP fault status. ● fngReset(1) ● fngDefect(2) ● fngReportDefect(3) ● fngDefectReported(4) ● fngDefectClearing(5) [Implementation] Same as the standard.	Y
9	dot1agCfmMepCciEnabled { dot1agCfmMepEntry 7 }	R/NC	[Standard] A value of `true` indicates that a CCM is to be generated. ● true(1) ● false(2) [Implementation] Same as the standard. `Read_Only`.	Y
10	dot1agCfmMepCcmLtmPriority { dot1agCfmMepEntry 8 }	R/NC	[Standard] The priority for CCMs and link trace messages. [Implementation] Same as the standard. `Read_Only`.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
11	dot1agCfmMepMacAddress { dot1agCfmMepEntry 9 }	R/O	[Standard] The MAC address of the MEP. [Implementation] Same as the standard.	Y
12	dot1agCfmMepLowPrDef { dot1agCfmMepEntry 10}	R/NC	[Standard] The lowest error priority. ● allDef(1) ● macRemErrXcon(2) ● remErrXcon(3) ● errXcon(4) ● xcon(5) ● noXcon(6) [Implementation] Same as the standard. `Read_Only`.	Y
13	dot1agCfmMepFngAlarmTime { dot1agCfmMepEntry 11 }	R/NC	[Standard] The time an error occurred before an error alarm was issued. [Implementation] Same as the standard. `Read_Only`.	Y
14	dot1agCfmMepFngResetTime { dot1agCfmMepEntry 12 }	R/NC	[Standard] The time an error occurred before the error alarm was reset. [Implementation] Same as the standard. `Read_Only`.	Y
15	dot1agCfmMepHighestPrDefect { dot1agCfmMepEntry 13 }	R/O	[Standard] The highest error priority in the MEP. ● none(0) ● defRDICCM(1) ● defMACstatus(2) ● defRemoteCCM(3) ● defErrorCCM(4) ● defXconCCM(5) [Implementation] Same as the standard.	Y
16	dot1agCfmMepDefects { dot1agCfmMepEntry 14 }	R/O	[Standard] The bit value that indicates each error. ● bDefRDICCM(0) ● bDefMACstatus(1) ● bDefRemoteCCM(2) ● bDefErrorCCM(3) ● bDefXconCCM(4) [Implementation] Same as the standard.	Y
17	dot1agCfmMepErrorCcmLastFailure { dot1agCfmMepEntry 15 }	R/O	[Standard] The last CCM received due to a DefErrorCCM error. [Implementation] Same as the standard. No more than 58 bytes of a CFM PDU.	Y
18	dot1agCfmMepXconCcmLastFailure { dot1agCfmMepEntry 16 }	R/O	[Standard] The last CCM received due to a DefXconCCM error. [Implementation] Same as the standard. No more than 58 bytes of a CFM PDU.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
19	dot1agCfmMepCcmSequenceErrors { dot1agCfmMepEntry 17 }	R/O	[Standard] The total number of out-of-sequence CCMs. [Implementation] Same as the standard.	Y
20	dot1agCfmMepCciSentCcms { dot1agCfmMepEntry 18 }	R/O	[Standard] The total number of CC messages transmitted. [Implementation] Same as the standard.	Y
21	dot1agCfmMepNextLbmTransId { dot1agCfmMepEntry 19 }	R/O	[Standard] The next sequence number in a loopback message. [Implementation] Same as the standard.	Y
22	dot1agCfmMepLbrIn { dot1agCfmMepEntry 20 }	R/O	[Standard] The number of loopback replies received. [Implementation] Same as the standard.	Y
23	dot1agCfmMepLbrInOutOfOrder { dot1agCfmMepEntry 21 }	R/O	[Standard] The number of out-of-order loopback replies received. [Implementation] Same as the standard.	Y
24	dot1agCfmMepLbrBadMsdu { dot1agCfmMepEntry 22}	R/O	[Standard] The total number of loopback replies received that contain a mismatched `mac_service_data_unit` value. [Implementation] Same as the standard.	Y
25	dot1agCfmMepLtmNextSeqNumber { dot1agCfmMepEntry 23 }	R/O	[Standard] The next forwarding ID in a link layer message. [Implementation] Same as the standard.	Y
26	dot1agCfmMepUnexpLtrIn { dot1agCfmMepEntry 24 }	R/O	[Standard] The number of unexpected link trace replies received. [Implementation] Same as the standard.	Y
27	dot1agCfmMepLbrOut { dot1agCfmMepEntry 25 }	R/O	[Standard] The number of transmitted loopback replies sent. [Implementation] Same as the standard.	Y
28	dot1agCfmMepTransmitLbmStatus { dot1agCfmMepEntry 26 }	R/NC	[Standard] Indicates whether a loopback message is to be transmitted. ● true(1) ● false(2) [Implementation] Same as the standard.	Y
29	dot1agCfmMepTransmitLbmDestMacAddress { dot1agCfmMepEntry 27 }	R/NC	[Standard] The destination MAC address of the loopback message. This is valid when item 31 is set to `false`. [Implementation] Same as the standard. `Read_Only`.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
30	dot1agCfmMepTransmitLbmDestMepId { dot1agCfmMepEntry 28 }	R/NC	[Standard] The destination MEP ID of a loopback message. This is valid when item 31 is set to `true`. [Implementation] Not supported because item 31 is set to `false` in this system.	N
31	dot1agCfmMepTransmitLbmDestIsMepId {dot1agCfmMepEntry 29 }	R/NC	[Standard] true(1): A MEP ID is used for loopback transmission. false(2): A MEP destination MAC address is used for loopback transmission. [Implementation] Fixed value of `false`. `Read_Only`.	Y
32	dot1agCfmMepTransmitLbmMessages {dot1agCfmMepEntry 30 }	R/NC	[Standard] The number of loopback messages to be sent. [Implementation] Same as the standard. `Read_Only`.	Y
33	dot1agCfmMepTransmitLbmDataTlv { dot1agCfmMepEntry 31 }	R/NC	[Standard] Data TLV data. [Implementation] Same as the standard. `Read_Only`.	Y
34	dot1agCfmMepTransmitLbmVlanPriority { dot1agCfmMepEntry 32 }	R/NC	[Standard] The priority to be used in a VLAN tag. [Implementation] Same as the standard. `Read_Only`.	Y
35	dot1agCfmMepTransmitLbmVlanDropEnable { dot1agCfmMepEntry 33 }	R/NC	[Standard] A Drop Enable bit value in a VLAN tag. ● true(1) ● false(2) [Implementation] Fixed value of `false`. `Read_Only`.	Y
36	dot1agCfmMepTransmitLbmResultOK { dot1agCfmMepEntry 34 }	R/O	[Standard] The operation result. ● true(1) ● false(2) [Implementation] Fixed value of `true`.	Y
37	dot1agCfmMepTransmitLbmSeqNumber { dot1agCfmMepEntry 35 }	R/O	[Standard] The loopback transaction of the first loopback message sent. ID (dot1agCfmMepNextLbmTransId) [Implementation] The loopback transaction ID of the previous loopback message sent.	Y
38	dot1agCfmMepTransmitLtmStatus { dot1agCfmMepEntry 36 }	R/NC	[Standard] The transmission status of the link trace message. [Implementation] Same as the standard.	Y
39	dot1agCfmMepTransmitLtmFlags { dot1agCfmMepEntry 37 }	R/NC	[Standard] The flag for the link trace message sent by the MEP. [Implementation] Fixed value of `0`. `Read_Only`.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
40	dot1agCfmMepTransmitLtmTargetMacAddress { dot1agCfmMepEntry 38 }	R/NC	[Standard] The destination MAC address of the link trace message. This is valid when item 42 is set to `false`. [Implementation] Same as the standard. `Read_Only`.	Y
41	dot1agCfmMepTransmitLtmTargetMepId { dot1agCfmMepEntry 39 }	R/NC	[Standard] The destination MEP ID of the link trace message. This is valid when item 42 is set to `true`. [Implementation] Not supported because item 42 is set to `false` in this system.	N
42	dot1agCfmMepTransmitLtmTargetIsMepId { dot1agCfmMepEntry 40 }	R/NC	[Standard] ● true(1):Destination MEP ID ● false(2):Destination MAC address [Implementation] Fixed value of `false`. `Read_Only`.	Y
43	dot1agCfmMepTransmitLtmTtl { dot1agCfmMepEntry 41 }	R/NC	[Standard] The TTL in the link trace message. [Implementation] Same as the standard. `Read_Only`.	Y
44	dot1agCfmMepTransmitLtmResult { dot1agCfmMepEntry 42 }	R/O	[Standard] The operation result. ● true(1) ● false(2) [Implementation] Fixed value of `true`.	Y
45	dot1agCfmMepTransmitLtmSeqNumber { dot1agCfmMepEntry 43 }	R/O	[Standard] The ID of a link trace message that was sent. [Implementation] Same as the standard.	Y
46	dot1agCfmMepTransmitLtmEgressIdentifier { dot1agCfmMepEntry 44 }	R/NC	[Standard] The link trace message transaction identifier of the link trace message to be sent. [Implementation] Same as the standard. `Read_Only`.	Y
47	dot1agCfmMepRowStatus { dot1agCfmMepEntry 45 }	R/NC	[Standard] The table status. ● active(1) ● notInService(2) [Implementation] Same as the standard. `Read_Only`.	Y

2.14.8 dot1agCfmLtr group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
```

```
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmMep OBJECT IDENTIFIER ::= {dot1agMIBObjects 7}

dot1agCfmLtrTable OBJECT IDENTIFIER ::= {dot1agCfmMep 2}
Object ID value 1.3.111.2.802.1.1.8.1.7.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmLtr group.

Table 2-33 dot1agCfmLtr group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmLtrTable { dot1agCfmMep 2 }	NA	[Standard] Link trace reply lists. [Implementation] Same as the standard.	Y
2	dot1agCfmLtrEntry { dot1agCfmLtrTable 1 }	NA	[Standard] A table entry for a link trace reply list. INDEX { dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMepIdentifier, dot1agCfmLtrSeqNumber, dot1agCfmLtrReceiveOrder } [Implementation] Same as the standard.	Y
3	dot1agCfmLtrSeqNumber { dot1agCfmLtrEntry 1}	NA	[Standard] The ID of a link trace reply list. [Implementation] Same as the standard.	Y
4	dot1agCfmLtrReceiveOrder { dot1agCfmLtrEntry 2 }	NA	[Standard] An identifier used to distinguish between two or more link trace replies. [Implementation] Same as the standard.	Y
5	dot1agCfmLtrTtl { dot1agCfmLtrEntry 3 }	R/O	[Standard] The TTL of the link trace reply. [Implementation] Same as the standard.	Y
6	dot1agCfmLtrForwarded { dot1agCfmLtrEntry 4 }	R/O	[Standard] Indicates whether the reply was transmitted by an MP. ● true(1) ● false(2) [Implementation] Same as the standard.	Y
7	dot1agCfmLtrTerminalMep { dot1agCfmLtrEntry 5 }	R/O	[Standard] Indicates whether the transmitted linktrace reply reached the MEP in the MA. ● true(1) ● false(2) [Implementation] Same as the standard.	Y
8	dot1agCfmLtrLastEgressIdentifier { dot1agCfmLtrEntry 6 }	R/O	[Standard] The last Egress ID. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
9	dot1agCfmLtrNextEgressIdentifier { dot1agCfmLtrEntry 7 }	R/O	[Standard] The next Egress ID. [Implementation] Same as the standard.	Y
10	dot1agCfmLtrRelay { dot1agCfmLtrEntry 8 }	R/O	[Standard] The value of the relay action field. ● rlyHit(1) ● rlyFdb(2) ● rlyMpdb(3) [Implementation] Same as the standard.	Y
11	dot1agCfmLtrChassisIdSubtype { dot1agCfmLtrEntry 9 }	R/O	[Standard] The value of the chassis format. ● chassisComponent(1) ● interfaceAlias(2) ● portComponent(3) ● macAddress(4) ● networkAddress(5) ● interfaceName(6) ● local(7) [Implementation] Same as the standard.	Y
12	dot1agCfmLtrChassisId { dot1agCfmLtrEntry 10 }	R/O	[Standard] The chassis ID of the Sender ID TLV. [Implementation] Same as the standard.	Y
13	dot1agCfmLtrManAddressDomain { dot1agCfmLtrEntry 11 }	R/O	[Standard] The TDomain. [Implementation] Same as the standard.	Y
14	dot1agCfmLtrManAddress { dot1agCfmLtrEntry 12 }	R/O	[Standard] The address of the SNMP Agent. [Implementation] Same as the standard. No more than 16 bytes.	Y
15	dot1agCfmLtrIngress { dot1agCfmLtrEntry 13 }	R/O	[Standard] The return value in the Ingress Action field of the linktrace reply. ● ingNoTlv(0) ● ingOk(1) ● ingDown(2) ● ingBlocked(3) ● ingVid(4) [Implementation] Same as the standard.	Y
16	dot1agCfmLtrIngressMac { dot1agCfmLtrEntry 14 }	R/O	[Standard] The Ingress MAC address. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
17	dot1agCfmLtrIngressPortIdSubtype { dot1agCfmLtrEntry 15 }	R/O	[Standard] The format of the physical port. ● interfaceAlias(1) ● portComponent(2) ● macAddress(3) ● networkAddress(4) ● interfaceName(5) ● agentCircuitId(6) ● local(7) [Implementation] Same as the standard.	Y
18	dot1agCfmLtrIngressPortId { dot1agCfmLtrEntry 16 }	R/O	[Standard] The Port ID. [Implementation] Same as the standard.	Y
19	dot1agCfmLtrEgress { dot1agCfmLtrEntry 17 }	R/O	[Standard] The Egress action field of the linktrace message. ● egrNoTlv(0) ● egrOK(1) ● egrDown(2) ● egrBlocked(3) ● egrVid(4) [Implementation] Same as the standard.	Y
20	dot1agCfmLtrEgressMac { dot1agCfmLtrEntry 18 }	R/O	[Standard] The Egress MAC address field. [Implementation] Same as the standard.	Y
21	dot1agCfmLtrEgressPortIdSubtype { dot1agCfmLtrEntry 19 }	R/O	[Standard] The format of the Egress Port ID. ● interfaceAlias(1) ● portComponent(2) ● macAddress(3) ● networkAddress(4) ● interfaceName(5) ● agentCircuitId(6) ● local(7) [Implementation] Same as the standard.	Y
22	dot1agCfmLtrEgressPortId { dot1agCfmLtrEntry 20 }	R/O	[Standard] The Egress Port ID. [Implementation] Same as the standard.	Y
23	dot1agCfmLtrOrganizationSpecificTlv { dot1agCfmLtrEntry 21 }	R/O	[Standard] OUI of an Organization-Specific TLV. [Implementation] Same as the standard. No more than 30 bytes.	Y

2.14.9 dot1agCfmMepDb group

(1) Identifiers

```
org OBJECT IDENTIFIER ::= {iso 3}
ieee OBJECT IDENTIFIER ::= {org 111}
```

```
standards-association-numbered-series-standards OBJECT IDENTIFIER ::= {ieee
2}
lan-man-stds OBJECT IDENTIFIER ::=
{standards-association-numbered-series-standards 802}
ieee802dot1 OBJECT IDENTIFIER ::= {lan-man-stds 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021CfmMib OBJECT IDENTIFIER ::= {ieee802dot1mibs 8}
dot1agMIBObjects OBJECT IDENTIFIER ::= {ieee8021CfmMib 1}
dot1agCfmMep OBJECT IDENTIFIER ::= {dot1agMIBObjects 7}

dot1agCfmMepDbTable OBJECT IDENTIFIER ::= {dot1agCfmMep 3}
Object ID value 1.3.111.2.802.1.1.8.1.7.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot1agCfmMepDb group.

Table 2-34 dot1agCfmMepDb group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1agCfmMepDbTable { dot1agCfmMep 3 }	NA	[Standard] A MEP database table. [Implementation] Same as the standard.	Y
2	dot1agCfmMepDbEntry { dot1agCfmMepDbTable 1 }	NA	[Standard] A MEP database table entry. INDEX { dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMepIdentifier, dot1agCfmMepDbRMepIdentifier } [Implementation] Same as the standard.	Y
3	dot1agCfmMepDbRMepIdentifier { dot1agCfmMepDbEntry 1 }	NA	[Standard] The MEP ID of the remote MEP. [Implementation] Same as the standard.	Y
4	dot1agCfmMepDbRMepState { dot1agCfmMepDbEntry 2}	R/O	[Standard] The operation state of the remote MEP. ● rMepIdle(1) ● rMepStart(2) ● rMepFailed(3) ● rMepOk(4) [Implementation] Same as the standard.	Y
5	dot1agCfmMepDbRMepFailedOkTime { dot1agCfmMepDbEntry 3 }	R/O	[Standard] The time that has elapsed since the remote MEP last changed to `Fail` or `OK`. [Implementation] Same as the standard.	Y
6	dot1agCfmMepDbMacAddress { dot1agCfmMepDbEntry 4 }	R/O	[Standard] The MAC address of the remote MEP. [Implementation] Same as the standard.	Y
7	dot1agCfmMepDbRdi { dot1agCfmMepDbEntry 5 }	R/O	[Standard] The RDI bit of the last CCM that was received. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
8	dot1agCfmMepDbPortStatusTlv { dot1agCfmMepDbEntry 6}	R/O	[Standard] The TLV port state of the last CCM that was received from a remote MEP. ● psNoPortStateTLV(0) ● psBlocked(1) ● psUp(2) [Implementation] Same as the standard.	Y
9	dot1agCfmMepDbInterfaceStatusTlv { dot1agCfmMepDbEntry 7}	R/O	[Standard] The TLV interface state of the last CCM that was received from a remote MEP. ● isNoInterfaceStatusTLV(0) ● isUp(1) ● isDown(2) ● isTesting(3) ● isUnknown(4) ● isDormant(5) ● isNotPresent(6) ● isLowerLayerDown(7) [Implementation] Same as the standard.	Y
10	dot1agCfmMepDbChassisIdSubtype { dot1agCfmMepDbEntry 8 }	R/O	[Standard] The format of the chassis ID of the last CCM that was received. ● chassisComponent(1) ● interfaceAlias(2) ● portComponent(3) ● macAddress(4) ● networkAddress(5) ● interfaceName(6) ● local(7) [Implementation] Same as the standard.	Y
11	dot1agCfmMepDbChassisId { dot1agCfmMepDbEntry 9 }	R/O	[Standard] The chassis ID of the last CCM that was received. [Implementation] Same as the standard.	Y
12	dot1agCfmMepDbManAddressDomain { dot1agCfmMepDbEntry 10 }	R/O	[Standard] The TDomain. [Implementation] Same as the standard.	Y
13	dot1agCfmMepDbManAddress { dot1agCfmMepDbEntry 11 }	R/O	[Standard] TAddress. [Implementation] Same as the standard. No more than 16 bytes.	Y

2.15 IEEE 8023-LAG-MIB group

The IEEE 8023-LAG-MIB group is described in the following document:

- IEEE8023-LAG-MIB.txt

2.15.1 dot3adAgg group

(1) Identifiers

```
member-body   OBJECT IDENTIFIER ::= {iso 2}
us            OBJECT IDENTIFIER ::= {member-body 840}
ieee802dot3   OBJECT IDENTIFIER ::= {us 10006}
snmpmibs      OBJECT IDENTIFIER ::= {ieee802dot3 300}
lagMIB        OBJECT IDENTIFIER ::= {snmpmibs 43}
lagMIBObjects OBJECT IDENTIFIER ::= {lagMIB 1}

dot3adAgg OBJECT IDENTIFIER ::= {lagMIBObjects 1}
Object ID value 1.2.840.10006.300.43.1.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot3adAgg group.

Table 2-35 dot3adAgg group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot3adAggTable {dot3adAgg 1}	NA	[Standard] A table of Aggregators in this system. [Implementation] Same as the standard.	Y
2	dot3adAggEntry {dot3adAggTable 1}	NA	[Standard] A list of Aggregator parameters. INDEX { ifIndex } [Implementation] Same as the standard.	Y
3	dot3adAggIndex {dot3adAggEntry 1}	NA	[Standard] The number that identifies the interface. [Implementation] Same as the standard.	Y
4	dot3adAggMACAddress {dot3adAggEntry 2}	R/O	[Standard] A MAC address assigned to an Aggregator. [Implementation] Same as the standard.	Y
5	dot3adAggActorSystemPriority {dot3adAggEntry 3}	R/NW	[Standard] A priority value associated with the system ID of the Actor. [Implementation] Same as the standard.	Y
6	dot3adAggActorSystemID {dot3adAggEntry 4}	R/NW	[Standard] A unique identifier for the system. [Implementation] Same as the standard.	Y
7	dot3adAggAggregateOrIndividual {dot3adAggEntry 5}	R/O	[Standard] Indicates whether the Aggregator performs link aggregation or treats links individually. [Implementation] Same as the standard.	Y
8	dot3adAggActorAdminKey {dot3adAggEntry 6}	R/NW	[Standard] The current administrative key for the Aggregator. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
9	dot3adAggActorOperKey {dot3adAggEntry 7}	R/O	[Standard] The current operational key for the Aggregator. [Implementation] Same as the standard.	Y
10	dot3adAggPartnerSystemID {dot3adAggEntry 8}	R/O	[Standard] A MAC address that is the unique identifier of the current protocol partner for the Aggregator. [Implementation] Same as the standard.	Y
11	dot3adAggPartnerSystemPriority {dot3adAggEntry 9}	R/O	[Standard] A priority value associated with the system ID of the Partner. [Implementation] Same as the standard.	Y
12	dot3adAggPartnerOperKey {dot3adAggEntry 10}	R/O	[Standard] An operational key value for the current protocol partner of the Aggregator. [Implementation] Same as the standard.	Y
13	dot3adAggCollectorMaxDelay {dot3adAggEntry 11}	R/NW	[Standard] The maximum delay (10 microseconds) before a frame received by FrameCollector is sent from AggregatorParser to MACClient, or the maximum delay before the frame is discarded. [Implementation] Same as the standard.	Y
14	dot3adAggPortListTable {dot3adAgg 2}	NA	[Standard] A list of AggregationPorts connected to the Aggregator. [Implementation] Same as the standard.	Y
15	dot3adAggPortListEntry {dot3adAggPortListTable 1}	NA	[Standard] A list of ports associated with the Aggregator. [Implementation] Same as the standard.	Y
16	dot3adAggPortListPorts {dot3adAggPortListEntry 1}	R/O	[Standard] The full set of ports associated with the Aggregator. [Implementation] Same as the standard.	Y

2.15.2 dot3adAggPort group

(1) Identifiers

```
member-body   OBJECT IDENTIFIER ::= {iso 2}
us            OBJECT IDENTIFIER ::= {member-body 840}
ieee802dot3   OBJECT IDENTIFIER ::= {us 10006}
snmpmibs      OBJECT IDENTIFIER ::= {ieee802dot3 300}
lagMIB        OBJECT IDENTIFIER ::= {snmpmibs 43}
lagMIBObjects OBJECT IDENTIFIER ::= {lagMIB 1}

dot3adAggPort OBJECT IDENTIFIER ::= {lagMIBObjects 2}
Object ID value 1.2.840.10006.300.43.1.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot3adAggPort dot3adAggPort group.

Table 2-36 dot3adAggPort group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot3adAggPortTable {dot3adAggPort 1}	NA	[Standard] The Link Aggregation Control configuration information for each AggregationPort. [Implementation] Same as the standard.	Y
2	dot3adAggPortEntry {dot3adAggPortTable 1}	NA	[Standard] A list of Link Aggregation Control configuration parameters for each AggregationPort. [Implementation] Same as the standard.	Y
3	dot3adAggPortIndex {dot3adAggPortEntry 1 }	NA	[Standard] The number that identifies the interface. [Implementation] Same as the standard.	Y
4	dot3adAggPortActorSystemPriority {dot3adAggPortEntry 2}	R/NW	[Standard] A priority value associated with the system ID of the Actor. [Implementation] Same as the standard.	Y
5	dot3adAggPortActorSystemID {dot3adAggPortEntry 3}	R/O	[Standard] A MAC address that determines the system ID value of the system for the AggregationPort. [Implementation] Same as the standard.	Y
6	dot3adAggPortActorAdminKey {dot3adAggPortEntry 4}	R/NW	[Standard] An administrative key for the AggregationPort. [Implementation] Same as the standard.	Y
7	dot3adAggPortActorOperKey {dot3adAggPortEntry 5}	R/NW	[Standard] An operational key for the AggregationPort. [Implementation] Same as the standard.	Y
8	dot3adAggPortPartnerAdminSystemPriority {dot3adAggPortEntry 6}	R/NW	[Standard] An administrative priority value associated with the system ID of the Partner. [Implementation] Same as the standard.	Y
9	dot3adAggPortPartnerOperSystemPriority {dot3adAggPortEntry 7}	R/O	[Standard] An operational priority value associated with the system ID of the Partner. [Implementation] Same as the standard.	Y
10	dot3adAggPortPartnerAdminSystemID {dot3adAggPortEntry 8}	R/NW	[Standard] The system ID administrative value for the protocol partner of the AggregationPort [Implementation] Same as the standard.	Y
11	dot3adAggPortPartnerOperSystemID {dot3adAggPortEntry 9}	R/O	[Standard] An administrative key value for the protocol partner. [Implementation] Same as the standard.	Y
12	dot3adAggPortPartnerAdminKey {dot3adAggPortEntry 10}	R/NW	[Standard] An administrative key value for the current protocol partner of the Aggregator. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
13	dot3adAggPortPartnerOperKey {dot3adAggPortEntry 11}	R/O	[Standard] An operational key for the protocol partner. [Implementation] Same as the standard.	Y
14	dot3adAggPortSelectedAggID {dot3adAggPortEntry 12}	R/O	[Standard] The identification value of the Aggregator for the AggregationPort. [Implementation] Same as the standard.	Y
15	dot3adAggPortAttachedAggID {dot3adAggPortEntry 13}	R/O	[Standard] The identification value of the Aggregator on which the AggregationPort is installed. [Implementation] Same as the standard.	Y
16	dot3adAggPortActorPort {dot3adAggPortEntry 14}	R/O	[Standard] A port number assigned to the AggregationPort. [Implementation] Same as the standard.	Y
17	dot3adAggPortActorPortPriority {dot3adAggPortEntry 15}	R/NW	[Standard] A priority value assigned to the AggregationPort. [Implementation] Same as the standard.	Y
18	dot3adAggPortPartnerAdminPort {dot3adAggPortEntry 16}	R/NW	[Standard] The identification value of the Aggregator on which the AggregationPort is installed. [Implementation] Same as the standard.	Y
19	dot3adAggPortPartnerOperPort {dot3adAggPortEntry 17}	R/O	[Standard] An operational port number that is assigned to the AggregationPort by its protocol partner. [Implementation] Same as the standard.	Y
20	dot3adAggPortPartnerAdminPortPriority {dot3adAggPortEntry 18}	R/NW	[Standard] An administrative port priority value for the protocol partner. [Implementation] Same as the standard.	Y
21	dot3adAggPortPartnerOperPortPriority {dot3adAggPortEntry 19}	R/O	[Standard] A priority value that is assigned to the AggregationPort by the partner. [Implementation] Same as the standard.	Y
22	dot3adAggPortActorAdminState {dot3adAggPortEntry 20}	R/NW	[Standard] An administrative `Actor_State` value sent by the Actor in LACPDUs. [Implementation] Same as the standard. Manager displays the value as text.	Y
23	dot3adAggPortActorOperState {dot3adAggPortEntry 21}	R/O	[Standard] An operational `Actor_State` value sent by the Actor in LACPDUs. [Implementation] Same as the standard. Manager displays the value as text.	Y
24	dot3adAggPortPartnerAdminState {dot3adAggPortEntry 22}	R/NW	[Standard] An administrative `Actor_State` value for the protocol partner. [Implementation] Same as the standard. Manager displays the value as text.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
25	dot3adAggPortPartnerOperState {dot3adAggPortEntry 23}	R/O	[Standard] An Actor_State value sent by the protocol partner in the most recent LACPDU. [Implementation] Same as the standard. Manager displays the value as text.	Y
26	dot3adAggPortAggregateOrIndividual {dot3adAggPortEntry 24}	R/O	[Standard] Indicates whether the AggregationPort can be aggregated or can only be operated as an individual link. [Implementation] Same as the standard.	Y
27	dot3adAggPortStatsTable {dot3adAggPort 2}	NA	[Standard] A table of Link Aggregation information for each port. [Implementation] Same as the standard.	Y
28	dot3adAggPortStatsEntry {dot3adAggPortStatsTable 1}	NA	[Standard] A list of Link Aggregation control protocol statistics for each port. [Implementation] Same as the standard.	Y
29	dot3adAggPortStatsLACPDUsRx {dot3adAggPortStatsEntry 1}	R/O	[Standard] The number of valid LACPDUs received on the AggregationPort. [Implementation] Same as the standard.	Y
30	dot3adAggPortStatsMarkerPDUsRx {dot3adAggPortStatsEntry 2}	R/O	[Standard] The number of valid MarkerPDUs received on the AggregationPort. [Implementation] Same as the standard.	Y
31	dot3adAggPortStatsMarkerResponsePDUsRx {dot3adAggPortStatsEntry 3}	R/O	[Standard] The number of valid MarkerResponsePDUs received on the AggregationPort. [Implementation] Same as the standard.	Y
32	dot3adAggPortStatsUnknownRx {dot3adAggPortStatsEntry 4}	R/O	[Standard] The number of frames received that were either carried as a Slow Protocols Ethernet type value (88-09) but contained an unknown PDU, or were addressed to the Slow Protocols group MAC address (0180.C200.0002) but not carried as a Slow Protocols Ethernet type. [Implementation] Same as the standard.	Y
33	dot3adAggPortStatsIllegalRx {dot3adAggPortStatsEntry 5}	R/O	[Standard] The number of frames received that were either carried as a Slow Protocols Ethernet type value (88-09) but contained a PDU in incorrect format, or contained an invalid Protocol Subtype value. [Implementation] Same as the standard.	Y
34	dot3adAggPortStatsLACPDUsTx {dot3adAggPortStatsEntry 6}	R/O	[Standard] The number of LACPDUs sent on the AggregationPort. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
35	dot3adAggPortStatsMarkerPDUsTx {dot3adAggPortStatsEntry 7}	R/O	[Standard] The number of MarkerPDUs sent on the AggregationPort. [Implementation] Fixed value of 0.	Y
36	dot3adAggPortStatsMarkerResponsePDUsTx {dot3adAggPortStatsEntry 8}	R/O	[Standard] The number of MarkerResponsePDUs sent on the AggregationPort. [Implementation] Same as the standard.	Y
37	dot3adAggPortDebugTable {dot3adAggPort 3}	NA	[Standard] A table of link aggregation debug information for all ports. [Implementation] Same as the standard.	Y
38	dot3adAggPortDebugEntry {dot3adAggPortDebugTable 1}	NA	[Standard] A list of debug parameters for a port. [Implementation] Same as the standard.	Y
39	dot3adAggPortDebugRxState {dot3adAggPortDebugEntry 1}	R/O	[Standard] The state of the Receive state machine for the AggregationPort: {currentRx(1), expired(2), defaulted(3), initialize(4), lacpDisabled(5), portDisabled(6)} [Implementation] Same as the standard.	Y
40	dot3adAggPortDebugLastRxTime {dot3adAggPortDebugEntry 2}	R/O	[Standard] The aTimeSinceSystemReset value for when the AggregationPort received the last LACPDU. [Implementation] Same as the standard.	Y
41	dot3adAggPortDebugMuxState {dot3adAggPortDebugEntry 3}	R/O	[Standard] The state of the Mux state machine for the AggregationPort: {detached(1), waiting(2), attached(3), collecting(4), distributing(5), collectingDistributing(6)} [Implementation] Same as the standard.	Y
42	dot3adAggPortDebugMuxReason {dot3adAggPortDebugEntry 4}	R/O	[Standard] The reason for the most recent state change of the Mux state machine. [Implementation] Character string that is always blank.	Y
43	dot3adAggPortDebugActorChurnState {dot3adAggPortDebugEntry 5}	R/O	[Standard] The state of the ActorChurnDetection state machine for the AggregationPort. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
44	dot3adAggPortDebugPartnerChurnState {dot3adAggPortDebugEntry 6}	R/O	[Standard] The state of the PartnerChurnDetection state machine for the AggregationPort. [Implementation] Same as the standard.	Y
45	dot3adAggPortDebugActorChurnCount {dot3adAggPortDebugEntry 7}	R/O	[Standard] The number of times the state of the ActorChurn state machine changed to ACTOR_CHURN. [Implementation] Same as the standard.	Y
46	dot3adAggPortDebugPartnerChurnCount {dot3adAggPortDebugEntry 8}	R/O	[Standard] The number of times the state of the PartnerChurn state machine changed to PARTNER_CHURN. [Implementation] Same as the standard.	Y
47	dot3adAggPortDebugActorSyncTransitionCount {dot3adAggPortDebugEntry 9}	R/O	[Standard] The number of times the state of the Mux state machine for the Actor changed to IN_SYNC. [Implementation] Same as the standard.	Y
48	dot3adAggPortDebugPartnerSyncTransitionCount {dot3adAggPortDebugEntry 10}	R/O	[Standard] The number of times the state of the Mux state machine for the Partner changed to IN_SYNC. [Implementation] Same as the standard.	Y
49	dot3adAggPortDebugActorChangeCount {dot3adAggPortDebugEntry 11}	R/O	[Standard] The number of times the Actor's perception of the LAG ID for the AggregationPort changed. [Implementation] Same as the standard.	Y
50	dot3adAggPortDebugPartnerChangeCount {dot3adAggPortDebugEntry 12}	R/O	[Standard] The number of times the Partner's perception of the LAG ID for the AggregationPort changed. [Implementation] Same as the standard.	Y

2.15.3 dot3adTablesLastChanged group

(1) Identifiers

```
member-body   OBJECT IDENTIFIER ::= {iso 2}
us            OBJECT IDENTIFIER ::= {member-body 840}
ieee802dot3   OBJECT IDENTIFIER ::= {us 10006}
snmpmibs      OBJECT IDENTIFIER ::= {ieee802dot3 300}
lagMIB        OBJECT IDENTIFIER ::= {snmpmibs 43}
lagMIBObjects OBJECT IDENTIFIER ::= {lagMIB 1}

dot3adTablesLastChanged OBJECT IDENTIFIER ::= {lagMIBObjects 3}
Object ID value 1.2.840.10006.300.43.1.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the dot3adTablesLastChanged group.

Table 2-37 dot3adTablesLastChanged group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot3adTablesLastChanged { lagMIBObjects 3 }	R/O	[Standard] When changes recently occurred to dot3adAggTable, dot3adAggPortListTable, or dot3adAggPortTable. [Implementation] Same as the standard.	Y

2.16 IEEE 802.1X MIB group

(1) Identifiers

```
std             OBJECT IDENTIFIER ::= {iso 0}
iso8802         OBJECT IDENTIFIER ::= {std 8802}
ieee802dot1     OBJECT IDENTIFIER ::= {iso8802 1}
ieee802dot1mibs OBJECT IDENTIFIER ::= {ieee802dot1 1}
ieee8021paeMIB  OBJECT IDENTIFIER ::= {ieee802dot1mibs 1}
paeMIBObjects   OBJECT IDENTIFIER ::= {ieee8021paeMIB 1}

dot1xPaeSystem OBJECT IDENTIFIER ::= {paeMIBObjects 1}
Object ID value 1.0.8802.1.1.1.1.1

dot1xPaeAuthenticator OBJECT IDENTIFIER ::= {paeMIBObjects 2}
Object ID value 1.0.8802.1.1.1.1.2

dot1xPaeSupplicant OBJECT IDENTIFIER ::= {paeMIBObjects 3}
Object ID value 1.0.8802.1.1.1.1.3

dot1xPaeConformance OBJECT IDENTIFIER ::= {ieee8021paeMIB 2}
dot1xPaeGroups      OBJECT IDENTIFIER ::= {dot1xPaeConformance 1}
Object ID value 1.0.8802.1.1.1.2.1

dot1xPaeCompliances OBJECT IDENTIFIER ::= {dot1xPaeConformance 2}
Object ID value 1.0.8802.1.1.1.2.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the IEEE 802.1X MIB group.

Table 2-38 IEEE 802.1X MIB group implementation specifications

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
1	dot1xPaeSystemAuthControl {dot1xPaeSystem 1}	R/NW	[Standard] The administrative enabled or disabled state (INTEGER) of the PAE (Port Access Entity) for the entire switch: INTEGER {enabled(1), disabled(2)} [Implementation] Same as the standard.	Y
2	dot1xPaePortTable {dot1xPaeSystem 2}	NA	[Standard] A table of system-level information for each PAE port. [Implementation] Same as the standard.	Y
3	dot1xPaePortEntry {dot1xPaePortTable 1}	NA	[Standard] A list of port-specific information. INDEX { dot1xPaePortNumber } [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
4	dot1xPaePortNumber {dot1xPaePortEntry 1}	NA	[Standard] A PAE port number. This number is used as an index to identify the table. [Implementation] Same as the standard. ifIndex is added to one of the following interfaces: ● Ethernet physical port ● VLAN group ● Link aggregation group For VLAN-based authentication (dynamic), this is represented by the following value (although this value does not conform to the standard): ● 4296	Y
5	dot1xPaePortProtocolVersion {dot1xPaePortEntry 2}	R/O	[Standard] The protocol version. [Implementation] Fixed value of 0x01.	Y
6	dot1xPaePortCapabilities {dot1xPaePortEntry 3}	R/O	[Standard] The PAE capability (BITS) supported by the port: BITS {dot1xPaePortAuthCapable(0), dot1xPaePortSuppCapable(1)} [Implementation] Fixed value of dot1xPaePortAuthCapable (0)	Y
7	dot1xPaePortInitialize {dot1xPaePortEntry 4}	R/NW	[Standard] Initialization control for the port. When this attribute is set to TRUE, the port is initialized. The attribute returns to FALSE after initialization has finished. [Implementation] Same as the standard.	Y
8	dot1xPaePortReauthenticate {dot1xPaePortEntry 5}	R/NW	[Standard] Re-authentication control for the port. When this attribute is set to TRUE, the Authenticator PAE state machine for the port re-authenticates the Supplicant. There is no effect when this attribute is set to FALSE. This attribute returns to FALSE whenever it is read. [Implementation] Same as the standard.	Y
9	dot1xAuthConfigTable {dot1xPaeAuthenticator 1}	NA	[Standard] A table of configuration objects for the Authenticator PAE associated with each port. The table contains a list of ports that can be authenticated for access. [Implementation] Same as the standard.	Y
10	dot1xAuthConfigEntry {dot1xAuthConfigTable 1}	NA	[Standard] A list of configuration information for the Authenticator PAE. INDEX { dot1xPaePortNumber } [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
11	dot1xAuthPaeState {dot1xAuthConfigEntry 1}	R/O	[Standard] The current value of the Authenticator PAE state machine: {initialize(1), disconnected(2), connecting(3), authenticating(4), authenticated(5), aborting(6), held(7), forceAuth(8), forceUnauth(9)} [Implementation] Same as the standard.	Y
12	dot1xAuthBackendAuthState {dot1xAuthConfigEntry 2}	R/O	[Standard] The current value of the back-end authentication state machine: {request(1), response(2), success(3), fail(4), timeout(5), idle(6), initialize(7)} [Implementation] Same as the standard.	Y
13	dot1xAuthAdminControlledDirections {dot1xAuthConfigEntry 3}	R/NW	[Standard] The current value of the administratively controlled directions parameter for the port. [Implementation] Fixed value of both (0).	Y
14	dot1xAuthOperControlledDirections {dot1xAuthConfigEntry 4}	R/O	[Standard] The current value of the operationally controlled directions parameter for the port. [Implementation] Fixed value of both (0).	Y
15	dot1xAuthAuthControlledPortStatus {dot1xAuthConfigEntry 5}	R/O	[Standard] The current value of the control port state parameter for the port. [Implementation] Same as the standard.	Y
16	dot1xAuthAuthControlledPortControl {dot1xAuthConfigEntry 6}	R/NW	[Standard] The current value of the control port control parameter for the port. [Implementation] Same as the standard.	Y
17	dot1xAuthQuietPeriod {dot1xAuthConfigEntry 7}	R/NW	[Standard] The current quietPeriod constant value (in seconds) used by the Authenticator PAE state machine. DEFVAL {60} [Implementation] Same as the standard.(0..65535)	Y
18	dot1xAuthTxPeriod {dot1xAuthConfigEntry 8}	R/NW	[Standard] The current txPeriod constant value (in seconds) used by the Authenticator PAE state machine. DEFVAL {30} [Implementation] Same as the	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
			standard.(1..65535)	
19	dot1xAuthSuppTimeout {dot1xAuthConfigEntry 9}	R/NW	[Standard] The current suppTimeout constant value (in seconds) used by the back-end authentication state machine. DEFVAL {30} [Implementation] Same as the standard.(1..65535)	Y
20	dot1xAuthServerTimeout {dot1xAuthConfigEntry 10}	R/NW	[Standard] The current serverTimeout constant value (in seconds) used by the back-end authentication state machine. DEFVAL {30} [Implementation] Same as the standard.	Y
21	dot1xAuthMaxReq {dot1xAuthConfigEntry 11}	R/NW	[Standard] The current maxReq constant value used by the back-end authentication state machine. DEFVAL {2} [Implementation] Same as the standard.(1..10)	Y
22	dot1xAuthReAuthPeriod {dot1xAuthConfigEntry 12}	R/NW	[Standard] The current reAuthperiod constant value (in seconds) used by the re-authentication timer state machine. DEFVAL {3600} [Implementation] 0 or 1-65535. The default is 3600. For (0): The Switch does not autonomously send an EAPOL-Request/Identity for re-authentication.	Y
23	dot1xAuthReAuthEnabled {dot1xAuthConfigEntry 13}	R/NW	[Standard] The enable-or-disable control used by the re-authentication timer state machine. DEFVAL{false(2)} [Implementation] Same as the standard.	Y
24	dot1xAuthKeyTxEnabled {dot1xAuthConfigEntry 14}	R/NW	[Standard] The current keyTransmissionEnabled constant value used by the Authenticator PAE state machine. [Implementation] Fixed value of false (2).	Y
25	dot1xAuthStatsTable {dot1xPaeAuthenticator 2}	NA	[Standard] A table of statistics objects for the Authenticator PAE associated with each port. The table contains a list of ports that can be authenticated for access. [Implementation] Same as the standard.	Y
26	dot1xAuthStatsEntry {dot1xAuthStatsTable 1}	NA	[Standard] Statistics for an Authenticator PAE. INDEX { dot1xPaePortNumber } [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
27	dot1xAuthEapolFramesRx {dot1xAuthStatsEntry 1}	R/O	[Standard] The number of all the valid EAPOL frames of each type received by the Authenticator. [Implementation] Same as the standard.	Y
28	dot1xAuthEapolFramesTx {dot1xAuthStatsEntry 2}	R/O	[Standard] The number of all the EAPOL frames of each type sent by the Authenticator. [Implementation] Same as the standard.	Y
29	dot1xAuthEapolStartFramesRx {dot1xAuthStatsEntry 3}	R/O	[Standard] The number of EAPOL Start frames received by the Authenticator. [Implementation] Same as the standard.	Y
30	dot1xAuthEapolLogoffFramesRx {dot1xAuthStatsEntry 4}	R/O	[Standard] The number of EAPOL Logoff frames received by the Authenticator. [Implementation] Same as the standard.	Y
31	dot1xAuthEapolRespIdFramesRx {dot1xAuthStatsEntry 5}	R/O	[Standard] The number of EAP Response/Identity frames received by the Authenticator. [Implementation] Same as the standard.	Y
32	dot1xAuthEapolRespFramesRx {dot1xAuthStatsEntry 6}	R/O	[Standard] The number of EAP Response frames received by the Authenticator, excluding the EAP Response/Identity frames. [Implementation] Same as the standard.	Y
33	dot1xAuthEapolReqIdFramesTx {dot1xAuthStatsEntry 7}	R/O	[Standard] The number of EAP Request/Identity frames sent by the Authenticator. [Implementation] Same as the standard.	Y
34	dot1xAuthEapolReqFramesTx {dot1xAuthStatsEntry 8}	R/O	[Standard] The number of EAP Request frames sent by the Authenticator, excluding the EAP Request/Identity frames. [Implementation] Same as the standard.	Y
35	dot1xAuthInvalidEapolFramesRx {dot1xAuthStatsEntry 9}	R/O	[Standard] The number of EAPOL frames that were received by the Authenticator, but whose frame type was not recognized. [Implementation] Same as the standard.	Y
36	dot1xAuthEapLengthErrorFramesRx {dot1xAuthStatsEntry 10}	R/O	[Standard] The number of EAPOL frames that were received by the Authenticator, but whose Packet Body Length was invalid. [Implementation] Same as the standard.	Y
37	dot1xAuthLastEapolFrameVersion {dot1xAuthStatsEntry 11}	R/O	[Standard] The protocol version number of the last EAPOL frame received by the Authenticator. [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
38	dot1xAuthLastEapolFrameSource {dot1xAuthStatsEntry 12}	R/O	[Standard] The source MAC Address of the last EAPOL frame received by the Authenticator. [Implementation] Same as the standard.	Y
39	dot1xAuthDiagTable {dot1xPaeAuthenticator 3}	NA	[Standard] A table of diagnostic objects for the Authenticator PAE associated with each port. The table contains a list of ports that can be authenticated for access. [Implementation] Same as the standard.	Y
40	dot1xAuthDiagEntry {dot1xAuthDiagTable 1}	NA	[Standard] A list of diagnostic information about an Authenticator PAE. INDEX { dot1xPaePortNumber } [Implementation] Same as the standard.	Y
41	dot1xAuthEntersConnecting {dot1xAuthDiagEntry 1}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed to CONNECTING. [Implementation] Same as the standard.	Y
42	dot1xAuthEapLogoffsWhileConnecting {dot1xAuthDiagEntry 2}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from CONNECTING to DISCONNECTED because an EAPOL Logoff message was received. [Implementation] Same as the standard.	Y
43	dot1xAuthEntersAuthenticating {dot1xAuthDiagEntry 3}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from CONNECTING to AUTHENTICATING because an EAP Response/Identity message was received from a Supplicant. [Implementation] Same as the standard.	Y
44	dot1xAuthAuthSuccessWhileAuthenticating {dot1xAuthDiagEntry 4}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATING to AUTHENTICATED because the back-end authentication state machine indicated the Supplicant authentication was successful (authSuccess = TRUE). [Implementation] Same as the standard.	Y
45	dot1xAuthAuthTimeoutsWhileAuthenticating {dot1xAuthDiagEntry 5}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATING to ABORTING because the back-end authentication state machine indicated an authentication timeout (authTimeout = TRUE). [Implementation] Same as the standard.	Y
46	dot1xAuthAuthFailWhileAuthenticating {dot1xAuthDiagEntry 6}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATING to HELD because the back-end authentication state machine indicated there was an authentication failure (authFail = TRUE). [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
47	dot1xAuthAuthReauthsWhileAuthenticating {dot1xAuthDiagEntry 7}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATING to ABORTING because there was a re-authentication request (reAuthenticate = TRUE). [Implementation] Same as the standard.	Y
48	dot1xAuthAuthEapStartsWhileAuthenticating {dot1xAuthDiagEntry 8}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATING to ABORTING because an EAPOL Start message was received from a Supplicant. [Implementation] Same as the standard.	Y
49	dot1xAuthAuthEapLogoffWhileAuthenticating {dot1xAuthDiagEntry 9}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATING to ABORTING because an EAPOL Logoff message was received from a Supplicant. [Implementation] Same as the standard.	Y
50	dot1xAuthAuthReauthsWhileAuthenticated {dot1xAuthDiagEntry 10}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATED to CONNECTING because there was a re-authentication request (reAuthenticate = TRUE). [Implementation] Same as the standard.	Y
51	dot1xAuthAuthEapStartsWhileAuthenticated {dot1xAuthDiagEntry 11}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATED to CONNECTING because an EAPOL Start message was received from a Supplicant. [Implementation] Same as the standard.	Y
52	dot1xAuthAuthEapLogoffWhileAuthenticated {dot1xAuthDiagEntry 12}	R/O	[Standard] The number of times the state of the Authenticator PAE state machine changed from AUTHENTICATED to DISCONNECTED because an EAPOL Logoff message was received from a Supplicant. [Implementation] Same as the standard.	Y
53	dot1xAuthBackendResponses {dot1xAuthDiagEntry 13}	R/O	[Standard] The number of times the back-end authentication state machine sent the first Access Request packet to the authentication server (by executing sendRespToServer when in a RESPONSE state). [Implementation] Same as the standard.	Y
54	dot1xAuthBackendAccessChallenges {dot1xAuthDiagEntry 14}	R/O	[Standard] The number of times the back-end authentication state machine received the first Access Challenge packet from the authentication server (that is, aReq was set to TRUE, causing the RESPONSE state to end). [Implementation] Same as the standard.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
55	dot1xAuthBackendOtherRequestsToSupplicant {dot1xAuthDiagEntry 15}	R/O	[Standard] The number of times the back-end authentication state machine sent an EAP Request (other than an Identity, Notification, Failure, or Success message) to a Supplicant (by executing txReq when in a REQUEST state). This implies that the Authenticator selects an EAP method. [Implementation] Same as the standard.	Y
56	dot1xAuthBackendNonNakResponsesFromSupplicant {dot1xAuthDiagEntry 16}	R/O	[Standard] The number of times the back-end authentication state machine received a response to the first EAP Request or a non-EAP NAK response from a Supplicant (that is, rxResp was set to TRUE, causing the state of the back-end state machine to change from REQUEST to RESPONSE). (The response is not EAP NAK.) This implies that the Supplicant can respond to the EAP method selected by the Authenticator. [Implementation] Same as the standard.	Y
57	dot1xAuthBackendAuthSuccesses {dot1xAuthDiagEntry 17}	R/O	[Standard] The number of times the back-end authentication state machine received an EAP Success message from the authentication server (that is, aSuccess was set to TRUE and the state of the back-end authentication state machine changed from RESPONSE to SUCCESS). This implies that the Supplicant was authenticated by the authentication server. [Implementation] Same as the standard.	Y
58	dot1xAuthBackendAuthFails {dot1xAuthDiagEntry 18}	R/O	[Standard] The number of times the back-end authentication state machine received an EAP Failure message from the authentication server (that is, aFail was set to TRUE and the state of the back-end authentication state machine changed from RESPONSE to FAIL). This implies that the Supplicant was not authenticated by the authentication server. [Implementation] Same as the standard.	Y
59	dot1xAuthSessionStatsTable {dot1xPaeAuthenticator 4}	NA	[Standard] A table of session statistics objects for the Authenticator PAE associated with each port. The table contains a list of ports that can be authenticated for access. [Implementation] Same as the standard.	Y
60	dot1xAuthSessionStatsEntry {dot1xAuthSessionStatsTable 1}	NA	[Standard] A list of session statistics for an Authenticator PAE. A set of counts collected for a session that is currently in progress, or a set of the last counts collected for the last valid session of a currently inactive port. INDEX { dot1xPaePortNumber } [Implementation] Same as the standard.	Y
61	dot1xAuthSessionOctetsRx {dot1xAuthSessionStatsEntry 1}	R/O	[Standard] The number of octets in the user data frames received on the port during the session. [Implementation] Fixed value of 0.	Y

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
62	dot1xAuthSessionOctetsTx {dot1xAuthSessionStatsEntry 2}	R/O	[Standard] The number of octets in the user data frames sent on the port during the session. [Implementation] Fixed value of 0.	Y
63	dot1xAuthSessionFramesRx {dot1xAuthSessionStatsEntry 3}	R/O	[Standard] The number of user data frames received on the port during the session. [Implementation] Fixed value of 0.	Y
64	dot1xAuthSessionFramesTx {dot1xAuthSessionStatsEntry 4}	R/O	[Standard] The number of user data frames sent on the port during the session. [Implementation] Fixed value of 0.	Y
65	dot1xAuthSessionId {dot1xAuthSessionStatsEntry 5}	R/O	[Standard] The unique identifier of the session. The identifier is a character string made up of three or more displayable ASCII characters. [Implementation] Fixed value of UnInitialized.	*
66	dot1xAuthSessionAuthenticMethod {dot1xAuthSessionStatsEntry 6}	R/O	[Standard] The authentication type used to establish the session (INTEGER): INTEGER {remoteAuthServer(1), localAuthServer(2)} [Implementation] Same as the standard. Fixed value of remoteAuthServer(1).	Y
67	dot1xAuthSessionTime {dot1xAuthSessionStatsEntry 7}	R/O	[Standard] The session hold time (in seconds). [Implementation] Same as the standard.	Y
68	dot1xAuthSessionTerminateCause {dot1xAuthSessionStatsEntry 8}	R/O	[Standard] The reason the session ended: {supplicantLogoff(1), portFailure(2), supplicantRestart(3), reauthFailed(4), authControlForceUnauth(5), portReInit(6), portAdminDisabled(7), notTerminatedYet(999)} [Implementation] Fixed value of notTerminatedYet(999).	*
69	dot1xAuthSessionUserName {dot1xAuthSessionStatsEntry 9}	R/O	[Standard] A user name that identifies the Supplicant PAE. [Implementation] Fixed value of UnInitialized.	*
70	dot1xSuppConfigTable {dot1xPaeSupplicant 1}	NA	[Standard] A table of configuration objects for the Supplicant PAE associated with each port. The table contains a list of ports that can be authenticated for access by a remote system. [Implementation] Not implemented.	N

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
71	dot1xSuppConfigEntry {dot1xSuppConfigTable 1}	NA	[Standard] A list of configuration information about a Supplicant PAE. INDEX { dot1xPaePortNumber } [Implementation] Not implemented.	N
72	dot1xSuppPaeState {dot1xSuppConfigEntry 1}	R/O	[Standard] The current state of the Supplicant PAE state machine: {disconnected(1), logoff(2), connecting(3), authenticating(4), authenticated(5), acquired(6), held(7)} [Implementation] Not implemented.	N
73	dot1xSuppHeldPeriod {dot1xSuppConfigEntry 2}	R/NW	[Standard] The current heldPeriod constant value (in seconds) used by the Supplicant PAE state machine. DEFVAL {60} [Implementation] Not implemented.	N
74	dot1xSuppAuthPeriod {dot1xSuppConfigEntry 3}	R/NW	[Standard] The current authPeriod constant value (in seconds) used by the Supplicant PAE state machine. DEFVAL {30} [Implementation] Not implemented.	N
75	dot1xSuppStartPeriod {dot1xSuppConfigEntry 4}	R/NW	[Standard] The current startPeriod constant value (in seconds) used by the Supplicant PAE state machine. DEFVAL {30} [Implementation] Not implemented.	N
76	dot1xSuppMaxStart {dot1xSuppConfigEntry 5}	R/NW	[Standard] The current maxStart constant value (in seconds) used by the Supplicant PAE state machine. DEFVAL {3} [Implementation] Not implemented.	N
77	dot1xSuppStatsTable {dot1xPaeSupplicant 2}	NA	[Standard] A table of statistics objects for the Supplicant PAE associated with each port. The table contains a list of ports that can be authenticated for access by a remote system. [Implementation] Not implemented.	N
78	dot1xSuppStatsEntry {dot1xSuppStatsTable 1}	NA	[Standard] A list of configuration information about a Supplicant PAE. INDEX { dot1xPaePortNumber } [Implementation] Not implemented.	N
79	dot1xSuppEapolFramesRx {dot1xSuppStatsEntry 1}	R/O	[Standard] The number of all the EAPOL frames of each type received by the Supplicant. [Implementation] Not implemented.	N

No.	Object identifier	Access	Implementation specifications	Implemented Y/N
80	dot1xSuppEapolFramesTx {dot1xSuppStatsEntry 2}	R/O	[Standard] The number of all the EAPOL frames of each type sent by the Supplicant. [Implementation] Not implemented.	N
81	dot1xSuppEapolStartFramesTx {dot1xSuppStatsEntry 3}	R/O	[Standard] The number of EAPOL Start frames sent by the Supplicant. [Implementation] Not implemented.	N
82	dot1xSuppEapolLogoffFramesTx {dot1xSuppStatsEntry 4}	R/O	[Standard] The number of EAPOL Logoff frames sent by the Supplicant. [Implementation] Not implemented.	N
83	dot1xSuppEapolRespIdFramesTx {dot1xSuppStatsEntry 5}	R/O	[Standard] The number of EAP Response/Identity frames sent by the Supplicant. [Implementation] Not implemented.	N
84	dot1xSuppEapolRespFramesTx {dot1xSuppStatsEntry 6}	R/O	[Standard] The number of valid EAP Response frames sent by the Supplicant (excluding Response/Identity frames). [Implementation] Not implemented.	N
85	dot1xSuppEapolReqIdFramesRx {dot1xSuppStatsEntry 7}	R/O	[Standard] The number of EAP Request/Identity frames received by the Supplicant. [Implementation] Not implemented.	N
86	dot1xSuppEapolReqFramesRx {dot1xSuppStatsEntry 8}	R/O	[Standard] The number of EAP Request frames received by the Supplicant (excluding Request/Identity frames). [Implementation] Not implemented.	N
87	dot1xSuppInvalidEapolFramesRx {dot1xSuppStatsEntry 9}	R/O	[Standard] The number of EAPOL frames that were received by the Supplicant, but whose frame type was not recognized. [Implementation] Not implemented.	N
88	dot1xSuppEapLengthErrorFramesRx {dot1xSuppStatsEntry 10}	R/O	[Standard] The number of EAPOL frames that were received by the Supplicant, but whose Packet Body Length was invalid. [Implementation] Not implemented.	N
89	dot1xSuppLastEapolFrameVersion {dot1xSuppStatsEntry 11}	R/O	[Standard] The protocol version number of the last EAPOL frame received by the Supplicant. [Implementation] Not implemented.	N
90	dot1xSuppLastEapolFrameSource {dot1xSuppStatsEntry 12}	R/O	[Standard] The source MAC address of the last EAPOL frame received by the Supplicant. [Implementation] Not implemented.	N

3. Private MIBs

This chapter describes the implementation specifications for the private MIBs used by the Switch.

3.1 axsStats group (statistics MIB)

3.1.1 axsIfStats group

(1) Identifiers

```
axsStats OBJECT IDENTIFIER ::= {axsMib 1}

axsIfStats OBJECT IDENTIFIER ::= {axsStats 4}
Object ID value 1.3.6.1.4.1.21839.2.2.1.1.4
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsIfStats group.

Table 3-1 axsIfStats group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsIfStatsTable {axsIfStats 1}	NOT-ACCESSIBLE	NA	Extended statistics table of the interface	Y
2	axsIfStatsEntry {axsIfStatsTable 1}	NOT-ACCESSIBLE	NA	Extended statistics table entry of the interface. INDEX { axsIfStatsIndex }	Y
3	axsIfStatsIndex {axsIfStatsEntry 1}	NOT-ACCESSIBLE	NA	Interface index of the Switch. Same as for ifIndex.	Y
4	axsIfStatsName {axsIfStatsEntry 2}	DisplayString	R/O	Interface name. Same as ifDescr.	Y
5	axsIfStatsInMegaOctets {axsIfStatsEntry 3}	Counter	R/O	Total number (in millions) of octets received. Any fraction is truncated.	Y
6	axsIfStatsInUcastMegaPkts {axsIfStatsEntry 4}	Counter	R/O	Number (in millions) of unicast packets received. Any fraction is truncated.	Y
7	axsIfStatsInMulticastMegaPkts {axsIfStatsEntry 5}	Counter	R/O	Number (in millions) of multicast packets received. Any fraction is truncated.	Y
8	axsIfStatsInBroadcastMegaPkts {axsIfStatsEntry 6}	Counter	R/O	Number (in millions) of broadcast packets received. Any fraction is truncated.	Y
9	axsIfStatsOutMegaOctets {axsIfStatsEntry 7}	Counter	R/O	Total (in millions) number of octets sent. Any fraction is truncated.	Y
10	axsIfStatsOutUcastMegaPkts {axsIfStatsEntry 8}	Counter	R/O	Number of packets sent by unicast (in millions). Any fraction is truncated. Fixed value of 0.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
11	axsIfStatsOutMulticastMegaPkts {axsIfStatsEntry 9}	Counter	R/O	Number (in millions) of packets sent in multicast routing. Any fraction is truncated.	Y
12	axsIfStatsOutBroadcastMegaPkts {axsIfStatsEntry 10}	Counter	R/O	Number (in millions) of packets sent in broadcast. Any fraction is truncated.	Y
13	axsIfStatsHighSpeed {axsIfStatsEntry 11}	Counter	R/O	Speed of the line (in Mbit/s). Any fraction is truncated. If the `bandwidth` configuration command is not defined, the speed of the relevant line is displayed. If it is defined, the defined value is displayed.	Y

3.1.2 axsQoS group

(1) Identifiers

```
axsStats OBJECT IDENTIFIER ::= {axsMib 1}

axsQoS OBJECT IDENTIFIER ::= {axsStats 6}

axsEtherTxQoS OBJECT IDENTIFIER ::= {axsQoS 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.1.6.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsEtherTxQoS group.

Table 3-2 axsEtherTxQoS group implementation specifications (QoS statistics of Ethernet interface)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsEtherTxQoSStatsTable {axsEtherTxQoS 1}	NOT-ACCESSIBLE	NA	Information on the QoS Statistics table	Y
2	axsEtherTxQoSStatsEntry {axsEtherTxQoSStatsTable 1}	NOT-ACCESSIBLE	NA	Entry for the QoS Statistics of each Ethernet interface. INDEX { axsEtherTxQoSStatsIndex }	Y
3	axsEtherTxQoSStatsIndex {axsEtherTxQoSStatsEntry 1}	NOT-ACCESSIBLE	NA	Shows the index value for identifying any entry in the table (ifIndex of the Ethernet interface). The value ranges from 1 to ifNumber.	Y
4	axsEtherTxQoSStatsMaxQnum {axsEtherTxQoSStatsEntry 2}	INTEGER	R/O	Returns the maximum number of queues of the relevant interface	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
5	axsEtherTxQoSStatsLimitQlen {axsEtherTxQoSStatsEntry 3}	INTEGER	R/O	Shows the limit length of the output priority queue of the relevant interface	Y
6	axsEtherTxQoSStatsTotalOutFrames {axsEtherTxQoSStatsEntry 4}	Counter	R/O	Shows the total number of frames sent from the relevant interface. - Fixed value of 0	*
7	axsEtherTxQoSStatsTotalOutBytesHigh {axsEtherTxQoSStatsEntry 5}	Counter	R/O	Shows the total number of bytes sent from the target interface (most significant 4 bytes). - Fixed value of 0	*
8	axsEtherTxQoSStatsTotalOutBytesLow {axsEtherTxQoSStatsEntry 6}	Counter	R/O	Shows the total number of bytes sent from the target interface (least significant 4 bytes). - Fixed value of 0	*
9	axsEtherTxQoSStatsTotalDiscardFrames {axsEtherTxQoSStatsEntry 7}	Counter	R/O	Shows the total number of frames discarded in the relevant interface.	Y
10	axsEtherTxQoSStatsQueueTable {axsEtherTxQoS 2}	NOT-ACCESSIBLE	NA	Table of the QoS statistics for each output priority queue of the relevant interface	Y
11	axsEtherTxQoSStatsQueueEntry {axsEtherTxQoSStatsQueueTable 1}	NOT-ACCESSIBLE	NA	Entry of the QoS statistics for each output priority queue of the relevant interface. INDEX { axsEtherTxQoSStatsQueueIndex, axsEtherTxQoSStatsQueueQueIndex }	Y
12	axsEtherTxQoSStatsQueueIndex {axsEtherTxQoSStatsQueueEntry 1}	NOT-ACCESSIBLE	NA	Shows the index value for identifying any entry in the table (ifIndex of the Ethernet interface). The value ranges from 1 to ifNumber.	Y
13	axsEtherTxQoSStatsQueueQueIndex {axsEtherTxQoSStatsQueueEntry 2}	NOT-ACCESSIBLE	NA	Shows the index value for identifying any entry in the table. The value ranges from 1 to axsEtherTxQoSStatsMaxQnum.	Y
14	axsEtherTxQoSStatsQueueQlen {axsEtherTxQoSStatsQueueEntry 3}	INTEGER	R/O	Length of the output priority queue at the time of information collection - Fixed value of 0	*

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
15	axsEtherTxQoSStatsQueueMaxQlen {axsEtherTxQoSStatsQueueEntry 4}	INTEGER	R/O	Maximum length of the output priority queue of the relevant interface after the statistics are deleted or initialized. - Fixed value of 0	*
16	axsEtherTxQoSStatsQueueDiscardFramesClass1 {axsEtherTxQoSStatsQueueEntry 5}	Counter64	R/O	Number of discarded frames in the relevant output priority queue at queuing level 1. - Fixed value of 0	*
17	axsEtherTxQoSStatsQueueDiscardFramesClass2 {axsEtherTxQoSStatsQueueEntry 6}	Counter64	R/O	Number of discarded frames in the relevant output priority queue at queuing level 2. - Fixed value of 0	*
18	axsEtherTxQoSStatsQueueDiscardFramesClass3 {axsEtherTxQoSStatsQueueEntry 7}	Counter64	R/O	Number of discarded frames in the relevant output priority queue at queuing level 3. - Fixed value of 0	*
19	axsEtherTxQoSStatsQueueDiscardFramesClass4 {axsEtherTxQoSStatsQueueEntry 8}	Counter64	R/O	Number of discarded frames in the relevant output priority queue at queuing level 4. - Fixed value of 0	*

3.2 axsFdb group (MAC address table group MIB)

(1) Identifiers

```
axsMib OBJECT IDENTIFIER ::= {axsEx 1}

axsFdb OBJECT IDENTIFIER ::= {axsMib 5}
Object ID value 1.3.6.1.4.1.21839.2.2.1.5
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsFdb group.

Table 3-3 axsFdb group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsFdbCounterTable {axsFdb 1}	NOT-ACCESSIBLE	NA	Table of the MAC address learning count	Y
2	axsFdbCounterEntry {axsFdbCounterTable 1}	NOT-ACCESSIBLE	NA	Entry of the table of the MAC address learning count. INDEX { axsFdbCounterNifIndex, axsFdbCounterLineIndex }	Y
3	axsFdbCounterNifIndex {axsFdbCounterEntry 1}	NOT-ACCESSIBLE	NA	Shows the position of slots with NIF inserted	Y
4	axsFdbCounterLineIndex {axsFdbCounterEntry 2}	NOT-ACCESSIBLE	NA	Shows the position of slots with LINE inserted	Y
5	axsFdbCounterCounts {axsFdbCounterEntry 3}	Counter32	R/O	Number of table entries of the MAC address learning count at this port	Y
6	axsFdbCounterType {axsFdbCounterEntry 4}	INTEGER	R/O	Setting of the learning limitation, and behavior of unlearnt frames in case of MAC address table count overflow when limitation is valid: Unlimited (0) Limited and Forward (1) Limited and Discard (2)	Y
7	axsFdbCounterLimits {axsFdbCounterEntry 5}	Counter32	R/O	Maximum number of table entries for the MAC address learning at this port# 0 : Learning is inhibited From 1 to 100000: Number specified via the `mac-address-table static` configuration command	Y

#: Fixed value of `0` when `axsFdbCounterType` is Unlimited (`0`)

3.3 axsVlan group (VLAN information MIB)

The port number used in this group is either the number that uniquely distinguishes the physical port number, or the channel group number and it is calculated using the following relationships:

- Port number of a physical port

  Any physical port is uniquely detected.

  Port number: Physical port number

- Port number of a channel group

  Calculated from the channel group number in link aggregation as follows:

  Port number: 65 (fixed value) + channel group number

3.3.1 axsVlanBridge group (dot1dBase information)

(1) axsVBBaseTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeBase OBJECT IDENTIFIER ::= {axsVlanBridge 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.1
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBBaseTable group.

Table 3-4 axsVBBaseTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBBaseTable {axsVlanBridgeBase 1}	NOT-ACCESSIBLE	NA	Table of dot1dBase information for each VLAN	Y
2	axsVBBaseEntry {axsVBBaseTable 1}	NOT-ACCESSIBLE	NA	Entry of information on each VLAN ID in axsVBBaseTable. INDEX { axsVBBaseIndex }	Y
3	axsVBBaseIndex {axsVBBaseEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBBaseBridgeAddress {axsVBBaseEntry 2}	MacAddress	R/O	MAC address of the VLAN. When using MAC functionality for each VLAN: MAC address for each VLAN When not using the above: MAC address of the switch	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
5	axsVBBaseNumPorts {axsVBBaseEntry 3}	INTEGER	R/O	Number of ports assigned in the VLAN	Y
6	axsVBBaseType {axsVBBaseEntry 4}	INTEGER	R/O	Type of bridging the VLAN can execute: ● unknown(1) ● transparent-only(2) ● sourceroute-only(3) ● srt(4) Fixed value of transparent-only (2) in the Switch.	*
7	axsVBBaseVlanIfIndex {axsVBBaseEntry 5}	INTEGER	R/O	Value of ifIndex of the VLAN interface	Y
8	axsVBBaseVlanType {axsVBBaseEntry 6}	INTEGER	R/O	VLAN type: ● port-based(1) ● mac-based(2) ● protocol-based(3)	Y
9	axsVBBaseVlanID {axsVBBaseEntry 7}	VlanIdOrZero	R/O	Value of VLAN tag VID for the VLAN.	Y
10	axsVBBaseAssociatedPrimaryVlan {axsVBBaseEntry 8}	VlanIdOrZero	R/O	Returns the VLAN ID of the primary VLAN paired with this VLAN when private VLAN functionality is active and this VLAN is set as a secondary VLAN. Returns 0 when private VLAN functionality is not active in this VLAN, this VLAN is not a secondary VLAN, or there is no primary VLAN paired with this VLAN. Returns a fixed value (0) in the Switch.	Y
11	axsVBBaseIfStatus {axsVBBaseEntry 9}	INTEGER	R/O	Interface state of the VLAN against the higher protocol: ● Up(1) ● Down(2)	Y
12	axsVBBaseLastChange {axsVBBaseEntry 10}	TimeTicks	R/O	Value of sysUpTime when the VLAN topology is changed.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
13	axsVBBasePrivateVlanType {axsVBBaseEntry 11}	INTEGER	R/O	Private VLAN type of VLAN. Returns normal (1) when private VLAN functionality is not active. ● normal(1) ● primary(2) ● isolated(3) ● community(4) Returns a fixed value (1) in the Switch.	Y

(2) axsVBBasePortTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeBase OBJECT IDENTIFIER ::= {axsVlanBridge 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.1
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBBasePortTable group.

Table 3-5 axsVBBasePortTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBBasePortTable {axsVlanBridgeBase 2}	NOT-ACCESSIBLE	NA	Table of dot1dBasePortTable for each VLAN.	Y
2	axsVBBasePortEntry {axsVBBasePortTable 1}	NOT-ACCESSIBLE	NA	Structural entry of axsVBBasePortTable. INDEX { axsVBBasePortIndex, axsVBBasePort }	Y
3	axsVBBasePortIndex {axsVBBasePortEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBBasePort {axsVBBasePortEntry 2}	INTEGER	R/O	Port number (1-65535) of the port assigned in the VLAN. Such port numbers are assigned to physical ports and link aggregation.	Y
5	axsVBBasePortIfIndex {axsVBBasePortEntry 3}	INTEGER	R/O	Value of ifIndex for the port assigned in the VLAN	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
6	axsVBBasePortCircuit {axsVBBasePortEntry 4}	OBJECT IDENTIFIER	R/O	ID to distinguish different ports in the VLAN that have the same axsVBBasePortIfIndex. Returns a fixed value (0.0) in the Switch.	*
7	axsVBBasePortDelayExceededDiscards {axsVBBasePortEntry 5}	Counter	R/O	Number of discarded frames due to a delay occurring in a VLAN port. Returns a fixed value (0) in the Switch.	*
8	axsVBBasePortMtuExceededDiscards {axsVBBasePortEntry 6}	Counter	R/O	Number of discarded frames due to data overflow occurring in a VLAN port. Returns a fixed value (0) in the Switch.	*
9	axsVBBasePortState {axsVBBasePortEntry 7}	INTEGER	R/O	STP port state of a port assigned in the VLAN: ● disable(1) ● blocking(2) ● listening(3) ● learning(4) ● forwarding(5) ● broken(6) ● fix-forwarding(7) Returns disable (1), blocking (2), listening (3), learning (4), forwarding (5), or fix-forwarding (7) in the Switch.	Y
10	axsVBBasePortTaggedState {axsVBBasePortEntry 8}	INTEGER	R/O	State of the VLAN tag configuration of the port set as a VLAN. ● Without configuration (1) ● With configuration (2)	Y
11	axsVBBasePortTranslatedTagID {axsVBBasePortEntry 9}	VlanIdOrZero	R/O	Translation ID (1-4094) of the VLAN assigned to this port when tag translation is active. Returns 0 when tag translation is not active.	Y

(3) axsVBStpTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeStp OBJECT IDENTIFIER ::= {axsVlanBridge 2}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.2
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBStpTable group.

Table 3-6 axsVBStpTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBStpTable {axsVlanBridgeStp 1}	NOT-ACCESSIBLE	NA	Table of dot1dStpTable for each VLAN. This table contains Spanning Tree information for each PVST+ VLAN.	Y
2	axsVBStpEntry {axsVBStpTable 1}	NOT-ACCESSIBLE	NA	Structural entry of axsVBStpTable. INDEX {axsVBStpIndex}	Y
3	axsVBStpIndex {axsVBStpEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBStpProtocolSpecification {axsVBStpEntry 2}	INTEGER	R/O	Type of protocol of a Spanning Tree Protocol for each VLAN: ● unknown(1) ● decLb100(2) ● ieee8021d(3) ● ieee8021w(4) Returns ieee8021d (3) or ieee8021w (4) in the Switch.	Y
5	axsVBStpPriority {axsVBStpEntry 3}	INTEGER	R/O	Priority value of the Spanning Tree Protocol for each VLAN (0-65535).	Y
6	axsVBStpTimeSinceTopologyChange {axsVBStpEntry 4}	TimeTicks	R/O	Elapsed time since the change in the topology of the Spanning Tree Protocol for each VLAN (in units of 1/100 seconds)	Y
7	axsVBStpTopChanges {axsVBStpEntry 5}	Counter	R/O	Number of topology changes in the Spanning Tree Protocol for each VLAN	Y
8	axsVBStpDesignatedRoot {axsVBStpEntry 6}	BridgeId	R/O	Root bridge ID of a Spanning Tree Protocol for each VLAN	Y
9	axsVBStpRootCost {axsVBStpEntry 7}	INTEGER	R/O	Root path cost of a Spanning Tree Protocol for each VLAN	Y
10	axsVBStpRootPort {axsVBStpEntry 8}	INTEGER	R/O	Root port value of a Spanning Tree Protocol for each VLAN	Y
11	axsVBStpMaxAge {axsVBStpEntry 9}	Timeout	R/O	Maximum aging time of a Spanning Tree Protocol for each VLAN (in units of 1/100 seconds)	Y
12	axsVBStpHelloTime {axsVBStpEntry 10}	Timeout	R/O	Hello time of a Spanning Tree Protocol for each VLAN (in units of 1/100 seconds)	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
13	axsVBStpHoldTime {axsVBStpEntry 11}	INTEGER	R/O	Hold time of a Spanning Tree Protocol for each VLAN (in units of 1/100 seconds)	Y
14	axsVBStpForwardDelay {axsVBStpEntry 12}	Timeout	R/O	Transfer delay time of a Spanning Tree Protocol for each VLAN (in units of 1/100 seconds)	Y
15	axsVBStpBridgeMaxAge {axsVBStpEntry 13}	Timeout	R/O	Maximum aging time of a Spanning Tree Protocol for each VLAN that is set up as a root bridge (range: 600-4000, unit: 1/100 seconds)	Y
16	axsVBStpBridgeHelloTime {axsVBStpEntry 14}	Timeout	R/O	Hello time of a Spanning Tree Protocol for each VLAN that is set up as a root bridge (range: 100-1000, unit: 1/100 seconds)	Y
17	axsVBStpBridgeForwardDelay {axsVBStpEntry 15}	Timeout	R/O	Transfer delay time of a Spanning Tree Protocol for each VLAN that is set up as a root bridge (range: 400-3000, unit: 1/100 seconds)	Y

(4) axsVBStpPortTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeStp OBJECT IDENTIFIER ::= {axsVlanBridge 2}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.2
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBStpPortTable group.

Table 3-7 axsVBStpPortTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBStpPortTable {axsVlanBridgeStp 2}	NOT-ACCESSIBLE	NA	Table of dot1dStpPortTable for each VLAN. This table contains the information on Spanning Tree ports for each PVST+ VLAN.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
2	axsVBStpPortEntry {axsVBStpPortTable 1}	NOT-ACCESSIBLE	NA	Structural entry of axsVBStpPortTable. INDEX { axsVBStpPortIndex, axsVBStpPort }	Y
3	axsVBStpPortIndex {axsVBStpPortEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBStpPort {axsVBStpPortEntry 2}	INTEGER	R/O	Port number (1-65535) of the port corresponding to the structural entry. Such port numbers are assigned to physical ports and link aggregation.	Y
5	axsVBStpPortPriority {axsVBStpPortEntry 3}	INTEGER	R/O	Priority of this port for each VLAN (0-255)	Y
6	axsVBStpPortState {axsVBStpPortEntry 4}	INTEGER	R/O	Current state of this port for each VLAN: ● disabled(1) ● blocking(2) ● listening(3) ● learning(4) ● forwarding(5) ● broken(6) Returns disabled (1), blocking (2), listening (3), learning (4), or forwarding (5) in the Switch.	Y
7	axsVBStpPortEnable {axsVBStpPortEntry 5}	INTEGER	R/O	Shows whether a Spanning Tree Protocol for each VLAN is enabled or disabled for this port: ● enabled(1) ● disabled(2)	Y
8	axsVBStpPortPathCost {axsVBStpPortEntry 6}	INTEGER	R/O	Path cost of this port for each VLAN (1-200000000) A value of 0 indicates that the port link is down.	Y
9	axsVBStpPortDesignatedRoot {axsVBStpPortEntry 7}	BridgeId	R/O	Root bridge ID for each VLAN included in the BPDU received by this port from the designated bridge	Y
10	axsVBStpPortDesignatedCost {axsVBStpPortEntry 8}	INTEGER	R/O	Path cost for each VLAN of the designated port connected to this port	Y
11	axsVBStpPortDesignatedBridge {axsVBStpPortEntry 9}	BridgeId	R/O	Bridge ID of the port for each VLAN regarded as a designated bridge for this port	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
12	axsVBStpPortDesignatedPort {axsVBStpPortEntry 10 }	OCTET STRING (SIZE(2))	R/O	Port ID of the designated bridge for each VLAN connected to this port	Y
13	axsVBStpPortForwardTransitions {axsVBStpPortEntry 11}	Counter	R/O	Number of times this port has changed its state from learning to forwarding for each VLAN	Y

(5) axsVBTpTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeTp OBJECT IDENTIFIER ::= {axsVlanBridge 4}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.4
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBTpTable group.

Table 3-8 axsVBTpTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBTpTable {axsVlanBridgeTp 1}	NOT-ACCESSIBLE	NA	dot1dTp information table for each VLAN	Y
2	axsVBTpEntry {axsVBTpTable 1}	NOT-ACCESSIBLE	NA	Structural entry of axsVBTpTable. INDEX { axsVBTpIndex }	Y
3	axsVBTpIndex {axsVBTpEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBTpLearnedEntryDiscards {axsVBTpEntry 2}	Counter	R/O	Number of entries discarded due to the absence of free space in the MAC address table. Returns a fixed value (0) in the Switch.	*
5	axsVBTpAgingTime {axsVBTpEntry 3}	INTEGER	R/O	Timeout period to age out dynamically learned MAC address entries (in seconds). ● In aging mode: 10 to 1000000 ● Not in aging mode: 0	Y

(6) axsVBTpFdbTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeTp OBJECT IDENTIFIER ::= {axsVlanBridge 4}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.4
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBTpFdbTable group.

Table 3-9 axsVBTpFdbTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBTpFdbTable {axsVlanBridgeTp 2}	NOT-ACCESSIBLE	NA	dot1dTpFdbTable information table for each VLAN.	Y
2	axsVBTpFdbEntry {axsVBTpFdpTable 1}	NOT-ACCESSIBLE	NA	Structural entry of axsVBTpFdbTable. INDEX { axsVBTpFdbIndex, axsVBTpFdbAddress }	Y
3	axsVBTpFdbIndex {axsVBTpEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBTpFdbAddress {axsVBTpEntry 2}	MacAddress	R/O	Unicast MAC address in the entries in the MAC address table	Y
5	axsVBTpFdbPort {axsVBTpEntry 3}	INTEGER	R/O	Port number that received frames whose source address is the MAC address designated by axsVBTpFdbAddress. If 0, no port number is learned.	Y
6	axsVBTpFdbStatus {axsVBTpEntry 4}	INTEGER	R/O	State of the MAC address table: ● other(1) ● invalid(2) ● learned(3) ● self(4) ● mgmt(5) Returns learned(3) for dynamic entries. Returns mgmt(5) for static entries.	Y

(7) axsVBTpPortTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
```

```
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeTp OBJECT IDENTIFIER ::= {axsVlanBridge 4}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.4
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBTpPortTable group.

Table 3-10 axsVBTpPortTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBTpPortTable {axsVlanBridgeTp 3}	NOT-ACCESSIBLE	NA	dot1dTpPortTable information table for each VLAN	Y
2	axsVBTpPortEntry {axsVBTpPortTable 1}	NOT-ACCESSIBLE	NA	Entry of axsVBTpPortTable information for each port. INDEX { axsVBTpPortIndex, axsVBTpPort }	Y
3	axsVBTpPortIndex {axsVBTpPortEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBTpPort {axsVBTpPortEntry 2}	INTEGER	R/O	Port number (1-65535) that indicates the port corresponding to the management information in this entry. Such port numbers are assigned to physical ports and link aggregation.	Y
5	axsVBTpPortMaxInfo {axsVBTpPortEntry 3}	INTEGER	R/O	Maximum width of the INFO field of this port for each VLAN (excluding the MAC header and FCS)	Y
6	axsVBTpPortInFrames {axsVBTpPortEntry 4}	Counter	R/O	Number of frames received by this port for each VLAN. Returns a fixed value (0) in the Switch.	*
7	axsVBTpPortOutFrames {axsVBTpPortEntry 5}	Counter	R/O	Number of frames sent by this port for each VLAN. Returns a fixed value (0) in the Switch.	*
8	axsVBTpPortInDiscards {axsVBTpPortEntry 6}	Counter	R/O	Number of frames discarded in this port for each VLAN. Returns a fixed value (0) in the Switch.	*

(8) axsVBStaticTable group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1

axsVlanBridgeStatic OBJECT IDENTIFIER ::= {axsVlanBridge 5}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1.5
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVBStaticTable group.

Table 3-11 axsVBStaticTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVBStaticTable {axsVlanBridgeStatic 1}	NOT-ACCESSIBLE	NA	dot1dStaticTable information table for each VLAN.	Y
2	axsVBStaticEntry {axsVBStaticTable 1}	NOT-ACCESSIBLE	NA	Structural entry of axsVBStaticTable. INDEX { axsVBStaticIndex, axsVBStaticAddress }	Y
3	axsVBStaticIndex {axsVBStaticEntry 1}	VlanIndex	R/O	VLAN ID	Y
4	axsVBStaticAddress {axsVBStaticEntry 2}	MacAddress	R/O	MAC address for unicast, group, or broadcast	Y
5	axsVBStaticReceivePort {axsVBStaticEntry 3}	INTEGER	R/O	The receiving port number that this entry is applied to. 0 if applied to all receiving ports. Returns a fixed value (0) in the Switch.	Y
6	axsVBStaticAllowedToGoTo {axsVBStaticEntry 4}	OCTET STRING	R/O	Bitmap of a port that indicates the destination port of the forwarding of the frame whose destination is the MAC address included in this entry	Y
7	axsVBStaticStatus {axsVBStaticEntry 5}	INTEGER	R/O	State of this entry: other(1) invalid(2) permanent(3) deleteOnReset(4) deleteOnTimeout(5) In the Switch, returns permanent (3) for static entries and deleteOnReset (4) for IGMP/MLD snooping entries.	Y

(9) axsVlanBridge (others) group

(a) Identifiers

```
axsVlan OBJECT IDENTIFIER ::= {axsMib 6}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6

axsVlanBridge OBJECT IDENTIFIER ::= {axsVlan 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.6.1
```

(b) Implementation specifications

The following table shows the implementation specifications for the axsVlanBridge (others) group.

Table 3-12 axsVlanBridge (others) group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsVlanBridgeMaxVlans {axsVlanBridge 101}	VlanIndex	R/O	Maximum value of the VLAN IDs in the Switch. Returns a fixed value (4094) in the Switch.	Y
2	axsVlanBridgeMaxSpans {axsVlanBridge 102}	VlanIndex	R/O	Maximum value of the VLAN IDs of the VLANs where Spanning Tree Protocols are operated in the Switch. Returns a fixed value (4094) in the Switch.	Y

3.4 axsL2ldMIB group (L2LD information MIB)

3.4.1 axsL2ldGlobalInfo group

(1) Identifiers

```
axsL2ld OBJECT IDENTIFIER ::= {axsMib 10}

axsL2ldGlobalInfo OBJECT IDENTIFIER ::= {axsL2ld 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.10.1

axsL2ldVersion OBJECT IDENTIFIER ::= {axsL2ldGlobalInfo 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.10.1.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsL2ldGlobalInfo group.

Table 3-13 axsL2ldGlobalInfo group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsL2ldVersion {axsL2ldGlobalInfo 1}	INTEGER	R/O	Version of L2 loop detection. ● Version 1(1)	Y
2	axsL2ldLoopDetectionId {axsL2ldGlobalInfo 2}	INTEGER	R/O	ID of L2 loop detection. ● Fixed value of 0	Y
3	axsL2ldIntervalTime {axsL2ldGlobalInfo 3}	INTEGER	R/O	Sending interval of L2 loop detection frames (in seconds)	Y
4	axsL2ldOutputRate {axsL2ldGlobalInfo 4}	INTEGER	R/O	Transmission rate of L2 loop detection frames (in packets per second)	Y
5	axsL2ldThreshold {axsL2ldGlobalInfo 5}	INTEGER	R/O	Number of detections until the port changes to the inactive state	Y
6	axsL2ldHoldTime {axsL2ldGlobalInfo 6}	INTEGER	R/O	Retention time for the number of detections (in seconds)	Y
7	axsL2ldAutoRestoreTime {axsL2ldGlobalInfo 7}	INTEGER	R/O	Period to switch an inactive port to an active port automatically (in seconds)	Y
8	axsL2ldConfigurationVlanPortCounts {axsL2ldGlobalInfo 8}	INTEGER	R/O	Number of VLAN ports that are directed to send L2 loop detection frames	Y
9	axsL2ldCapacityVlanPortCounts {axsL2ldGlobalInfo 9}	INTEGER	R/O	Number of VLAN ports that are able to send L2 loop detection frames at the defined transmission rate	Y

3.4.2 axsL2ldPortTable group

(1) Identifiers

```
axsL2ld OBJECT IDENTIFIER ::= {axsMib 10}

axsL2ldPortTable Group OBJECT IDENTIFIER ::= {axsL2ld 2}
Object ID value 1.3.6.1.4.1.21839.2.2.1.10.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsL2ldPortTable group.

Table 3-14 axsL2ldPortTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsL2ldPortTable {axsL2ld 2}	NOT-ACCESSIBLE	NA	Table containing the port information about L2 loop detection	Y
2	axsL2ldPortEntry {axsL2ldPortTable 1}	NOT-ACCESSIBLE	NA	List of the port information about L2 loop detection. INDEX {axsL2ldPortIndex,axsL2ldPortIfIndex }	Y
3	axsL2ldPortIndex {axsL2ldPortEntry 1}	INTEGER	R/O	Fixed value of 0.	Y
4	axsL2ldPortIfIndex {axsL2ldPortEntry 2}	INTEGER	R/O	ifIndex# of the port	Y
5	axsL2ldPortStatus {axsL2ldPortEntry 3}	INTEGER	R/O	State of the port: ● Up (1):Up state ● Down (2):Down state ● Down (loop) (3):Down state due to L2 loop detection	Y
6	axsL2ldPortType {axsL2ldPortEntry 4}	INTEGER	R/O	Port type: ● trap (1):detecting port ● send-inact (2):detecting and blocking port ● send (3):detecting and sending port ● uplink (4):Uplink port pair ● exception (5):Out-of-scope port	Y
7	axsL2ldPortDetectCount {axsL2ldPortEntry 5}	INTEGER	R/O	Number of L2 loop detections. How many times the L2 loop detection frames are received within the retention time.	Y
8	axsL2ldPortAutoRestoringTimer {axsL2ldPortEntry 6}	INTEGER	R/O	Time to automatic recovery (in seconds). 0 if the port is active.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
9	axsL2ldPortSourcePortIfindex {axsL2ldPortEntry 7}	INTEGER	R/O	ifIndex# of the port that sent the last L2 loop detection frame received	Y
10	axsL2ldPortDestinationPortIfindex {axsL2ldPortEntry 8}	INTEGER	R/O	ifIndex# of the port that received the last L2 loop detection frame	Y
11	axsL2ldPortSourceVlan {axsL2ldPortEntry 9}	INTEGER	R/O	VLAN ID of the sender of the last L2 loop detection frame received	Y
12	axsL2ldPortHCInFrames {axsL2ldPortEntry 10}	Counter64	R/O	Number of L2 loop detection frames received	Y
13	axsL2ldPortHCOutFrames {axsL2ldPortEntry 11}	Counter64	R/O	Number of L2 loop detection frames sent	Y
14	axsL2ldPortHCInDiscards {axsL2ldPortEntry 12}	Counter64	R/O	Number of received L2 loop detection frames discarded	Y
15	axsL2ldPortInactiveCount {axsL2ldPortEntry 13}	INTEGER	R/O	Number of times the port changed to the inactive state	Y
16	axsL2ldPortLastInactiveTime {axsL2ldPortEntry 14}	TimeStamp	R/O	Start time of the last inactive state	Y
17	axsL2ldPortLastInFramesTime {axsL2ldPortEntry 15}	TimeStamp	R/O	Time when the last L2 loop detection frame is received	Y

#: For a link aggregation port, ifIndex from link aggregation is used.

3.5 axsUlr group (ULR information MIB)

3.5.1 axsUlrGlobalInfo group

(1) Identifiers

```
axsUlr OBJECT IDENTIFIER ::= {axsMib 20}

axsUlrGlobalInfo OBJECT IDENTIFIER ::= {axsUlr 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.20.1

axsUlrVersion OBJECT IDENTIFIER ::= {axsUlrGlobalInfo 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.20.1.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsUlrGlobalInfo group.

Table 3-15 axsUlrGlobalInfo group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsUlrVersion {axsUlrGlobalInfo 1}	INTEGER	R/O	Uplink redundancy version: ● Version 1(1)	Y
2	axsUlrID {axsUlrGlobalInfo 2}	MacAddress	R/O	System ID of the switch	Y
3	axsUlrConfigurationPortCounts {axsUlrGlobalInfo 3}	INTEGER	R/O	Summed number of primary ports and secondary ports	Y
4	axsUlrStartupActivePortSelection {axsUlrGlobalInfo 4}	INTEGER	R/O	Setting of active port locking functionality at the launch of the switch: ● Off (1): No ● On (2): Yes	N

3.5.2 axsUlrPortTable group

(1) Identifiers

```
axsUlr OBJECT IDENTIFIER ::= {axsMib 20}

axsUlrPortTable Group OBJECT IDENTIFIER ::= {axsUlr 2}
Object ID value 1.3.6.1.4.1.21839.2.2.1.20.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsUlrPortTable group.

Table 3-16 axsUlrPortTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsUlrPortTable {axsUlr 2}	NOT-ACCESSIBLE	NA	Table containing information on uplink redundancy ports	Y
2	axsUlrPortEntry {axsUlrPortTable 1}	NOT-ACCESSIBLE	NA	List of the information on uplink redundancy ports INDEX { axsUlrPortIfIndex }	Y
3	axsUlrPortIfIndex {axsUlrPortEntry 1}	INTEGER	R/O	ifIndex of a port or channel group	Y
4	axsUlrPortType {axsUlrPortEntry 2}	INTEGER	R/O	Port type: ● Primary (1):Primary port ● Secondary (2):Secondary port	Y
5	axsUlrPairedPortIfIndex {axsUlrPortEntry 3}	INTEGER	R/O	ifIndex of the paired port or channel group	Y
6	axsUlrPortStatus {axsUlrPortEntry 4}	INTEGER	R/O	State of the port: ● Forwarding (1): Forwarding ● Down (2): Port or channel group is down ● Blocking (3): Blocking	Y
7	axsUlrPairedPortStatus {axsUlrPortEntry 5}	INTEGER	R/O	State of the paired port: ● Forwarding (1): Forwarding ● Down (2): Port or channel group is down ● Blocking (3): Blocking	N
8	axsUlrAutoChangeToPrimary {axsUlrPortEntry 6}	INTEGER	R/O	Automatic switchback setting: ● Off (1): No ● On (2): Yes	N
9	axsUlrAutoChangeToPrimaryDelay {axsUlrPortEntry 7}	INTEGER	R/O	Period for automatic switchback (in seconds).	N
10	axsUlrAutoChangeToPrimaryRest {axsUlrPortEntry 8}	INTEGER	R/O	Remaining time of automatic switchback (in seconds).	N
11	axsUlrStartupActivePortSelectionStatus {axsUlrPortEntry 9}	INTEGER	R/O	Operating state of active port locking functionality on startup of the switch: ● Off (1): Turned off ● On (2): Operating	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
12	axsUlrFlushTransmit {axsUlrPortEntry 10}	INTEGER	R/O	Transmission setting for flush control frames: ● Off (1): No ● On (2): Yes	N
13	axsUlrFlushVlan {axsUlrPortEntry 11}	INTEGER	R/O	VLAN ID of the VLAN sending flush control frames: ● Not defined (0) ● VLAN ID used as sender	N
14	axsUlrMacAddressUpdateTransmit {axsUlrPortEntry 12}	INTEGER	R/O	Number of MAC address update frames sent	N
15	axsUlrLastActivePortDecisionTime {axsUlrPortEntry 13}	TimeStamp	R/O	Last decision time for defining the active port	N
16	axsUlrLastFlushTransmitTime {axsUlrPortEntry 14}	TimeStamp	R/O	Last transmission time of flush control frames	N
17	axsUlrLastMacUpdateTransmitTime {axsUlrPortEntry 15}	TimeStamp	R/O	Last transmission time of MAC address update frames	N
18	axsUlrLastChangeFactor {axsUlrPortEntry 16}	INTEGER	R/O	Factor for defining the last active port: ● command (1) ● configure (2) ● primary down (3) ● primary up (4) ● secondary down (5) ● secondary up (6) ● preemption (7)	N
19	axsUlrFlushTransmitTotalPackets {axsUlrPortEntry 17}	INTEGER	R/O	Number of flush control frames sent	N
20	axsUlrMacAddressUpdateTransmitTotalPackets {axsUlrPortEntry 18}	INTEGER	R/O	Number of MAC address update frames sent	N
21	axsUlrMacAddressUpdateTransmitOverFlow {axsUlrPortEntry 19}	INTEGER	R/O	Number of overflows of MAC address update frames	N
22	axsUlrActiveDecisionCount {axsUlrPortEntry 20}	INTEGER	R/O	Number of times an active port is defined on an uplink port (including the target port)	N

3.6 axsBootManagement group (system boot information MIB)

(1) Identifier

```
axsBootManagement OBJECT IDENTIFIER ::= {axsMib 51}
Object ID value 1.3.6.1.4.1.21839.2.2.1.51
```

(2) Implementation specifications

The following table lists the implementation specifications for axsBootManagement.

Table 3-17 axsBootManagement implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsBootReason {axsBootManagement 1}	INTEGER	R/O	Reason for system startup: ● power-on (1):Startup due to power-on ● reload (2):Startup due to a command ● system-fault (3):Startup due to a fault ● system-stall (4):Startup due to a WDT timeout ● reset (5):Startup due to a hardware reset ● fail-over (6):Startup due to a SWAP ● default-restart (7):Startup due to a default restart ● system-exception (8):Startup due to a fault (CPU exception) Returns power-on (1), reload (2), system-fault (3), system-stall (4), or system-exception (8) in the Switch.	Y

3.7 axsLogin group (login information MIB)

(1) Identifier

```
axsLogin OBJECTIDENTIFIER ::= {axsMib 52}
Object ID value 1.3.6.1.4.1.21839.2.2.1.52
```

(2) Implementation specifications

The following table lists the implementation specifications for axsLogin.

Table 3-18 axsLogin implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsLoginName {axsLogin 1}	DisplayString	NA	Login user name	Y
2	axsLoginTime {axsLogin 2}	DisplayString	NA	Indicates the user login time (year, month, day, hour, minute, second, and time zone) with a 26-byte string. *YYYY/MM/DD hh:mm:ss XXXXXX* ● *YYYY*: dominical year ● *MM*: month (01-12) ● *DD*: day (01-31) ● *hh*: hour (00-23) ● *mm*: minute (00-59) ● *ss*: second (00-59) ● *XXXXXX*: time zone A 1-byte space is inserted between *DD* and *hh*, and between *ss* and *XXXXXX*. (Ex.2007/03/12 10:23:10 JST)	Y
3	axsLogoutTime {axsLogin 3}	DisplayString	NA	Indicates the user logout time (year, month, day, hour, minute, second, and time zone) with a 26-byte string. *YYYY/MM/DD hh:mm:ss XXXXXX* ● *YYYY*: dominical year ● *MM*: month (01-12) ● *DD*: day (01-31) ● *hh*: hour (00-23) ● *mm*: minute (00-59) ● *ss*: second (00-59) ● *XXXXXX*: time zone A 1-byte space is inserted between *DD* and *hh*, and between *ss* and *XXXXXX*. (Ex.2007/03/12 10:23:10 JST)	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
4	axsLoginFailureTime {axsLogin 4}	DisplayString	NA	Indicates the time of a failed log in (year, month, day, hour, minute, second, and time zone) with a 26-byte string. *YYYY*/*MM*/*DD* *hh*:*mm*:*ss* *XXXXXX* ● *YYYY*: dominical year ● *MM*: month (01-12) ● *DD*: day (01-31) ● *hh*: hour (00-23) ● *mm*: minute (00-59) ● *ss*: second (00-59) ● *XXXXXX*: time zone A 1-byte space is inserted between *DD* and *hh*, and between *ss* and *XXXXXX*. (Ex.2007/03/12 10:23:10 JST)	Y
5	axsLoginLocation {axsLogin 5}	DisplayString	NA	Connection type of the login user, indicated by either of the following formats: ● For console: console ● For any other: *XXXX*(*YYYY*) - *XXXX*: IP address - *YYYY*:Application (telnet, ftp) (Ex."console", "192.168.1.1(telnet)")	Y
6	axsLoginLine {axsLogin 6}	DisplayString	NA	Terminal ID of the login user, indicated by either of the following connection types: ● For console: console ● For any other: *XXXX(YYYY)* - *XXXX*: Terminal - *YYYY*: Application (telnet, ftp) (Ex."console", "vty0(telnet)")	Y
7	axsLogoutStatus {axsLogin 7}	INTEGER	NA	Reason for logout: ● error(1):Any other reason than the following (Example:System out due to an internal error) ● success(2):Logged out by using a command ● timeout(3):Auto-logout ● disconnect(4):Disconnection ● force(5):Forced by another user Returns a fixed value (2) in the Switch.	Y

3.8 axslldp group (LLDP information MIB)

3.8.1 axslldpConfiguration group

(1) Identifiers

```
axslldp OBJECT IDENTIFIER ::= {axsMib 100}

axslldpConfiguration OBJECT IDENTIFIER ::= {axslldp 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.1

axslldpMessageTxInterval OBJECT IDENTIFIER ::= {axslldpConfiguration 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.1.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axslldpConfiguration group.

Table 3-19 axslldpConfiguration group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axslldpMessageTxInterval {axslldpConfiguration 1}	Integer32 (5..32768)	R/O	[Standard] Sending interval of the LDPDU. Defined by the `lldp interval-time` configuration command (in seconds). The default value is 30 (unit: seconds). [Implementation] Same as the standard.	Y
2	axslldpMessageTxHoldMultiplier {axslldpConfiguration 2}	Integer32 (2..10)	R/O	[Standard] Factor of the period for which the neighboring switch holds LLDP frames sent from the Switch. Actual retention time is the product of the value of axslldpMessageTxInterval and this MIB value. Defined by the `lldp hold-count` configuration command. The default value is `4`. [Implementation] Same as the standard.	Y
3	axslldpReinitDelay {axslldpConfiguration 3}	Integer32 (1..10)	R/W	[Standard] Delay time for reinitialization since the time the port state changed to `disable` (in seconds). The default value is 1 (unit: seconds). [Implementation] Not supported.	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
4	axslldpTxDelay {axslldpConfiguration 4}	Integer32 (1..8192)	R/W	[Standard] Delay time until LDPDU is sent after the value of an object of the axslldpLocalSystemData group is changed (in seconds). A recommended value can be calculated using the following expression: axslldpTxDelay = max(1,(0.25 x axslldpMessageTxInterval)) The default value is 8 (unit: seconds). [Implementation] Not supported.	N
5	axslldpPortConfigTable {axslldpConfiguration 6}	SEQUENCE OF axslldpPortConfigEntry	NA	[Standard] Table related to LDPDU transmission. [Implementation] Same as the standard.	Y
6	axslldpPortConfigEntry {axslldpPortConfigTable 1}	axslldpPortConfigEntry	NA	[Standard] Entry (for each port) related to LDPDU transmission. INDEX { axslldpPortConfigPortNum } [Implementation] Same as the standard.	Y
7	axslldpPortConfigPortNum {axslldpPortConfigEntry 2}	Integer32	NA	[Standard] ID to identify ports. Same as ifIndex. [Implementation] Same as the standard.	Y
8	axslldpPortConfigAdminStatus {axslldpPortConfigEntry 3}	INTEGER	R/O	[Standard] Port status of the Switch related to LDPDU transmission and reception. {txOnly(1), rxOnly(2), txAndRx(3), disabled(4)} [Implementation] Only txAndRx (3) and disabled (4) are available.	Y
9	axslldpPortConfigTLVsTxEnable {axslldpPortConfigEntry 4}	BITS	R/O	[Standard] TLV available for transmission related to the corresponding port. {portDesc(4), sysName(5), sysDesc(6), sysCap(7)} [Implementation] Fixed values of portDesc (4), sysName (5), and sysDesc	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
				(6).	
10	axslldpPortConfigRowStatus {axslldpPortConfigEntry 5}	RowStatus	R/O	[Standard] Status of this entry: active(1):if axslldpPortConfigAdminStatus is txAndRx notReady(3):if axslldpPortConfigAdminStatus is disabled [Implementation] Same as the standard.	Y
11	axslldpConfigManAddrTable {axslldpConfiguration 7}	SEQUENCE OF axslldpConfigManAddrEntry	NA	[Standard] Table related to the ports that send the management address of the Switch. [Implementation] Not supported.	N
12	axslldpConfigManAddrEntry {axslldpConfigManAddrTable 1}	axslldpConfigManAddrEntry	NA	[Standard] Entry constituting the aggregate of ports that send the management address of the Switch. [Implementation] Not supported.	N
13	axslldpConfigManAddrPortsTxEnable {axslldpConfigManAddrEntry 1}	OCTET STRING (SIZE(48))	R/W	[Standard] Bitmap constituting the aggregate of ports that send the management address of the Switch. [Implementation] Not supported.	N

3.8.2 axslldpStats group

(1) Identifiers

```
axslldp OBJECT IDENTIFIER ::= {axsMib 100}

axslldpStats OBJECT IDENTIFIER ::= {axslldp 2}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.2

axslldpStatsTable OBJECT IDENTIFIER ::= {axslldpStats 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.2.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axslldpStats group.

Table 3-20 axslldpStats group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axslldpStatsTable {axslldpStats 1}	SEQUENCE OF axslldpStats Entry	NA	[Standard] Table of LLDP statistics. [Implementation] Same as the standard.	Y
2	axslldpStatsEntry {axslldpStatsTable 1}	axslldpStats Entry	NA	[Standard] Entry (for each port) related to LLDP statistics. INDEX { axslldpStatsPortNum } [Implementation] Same as the standard.	Y
3	axslldpStatsPortNum {axslldpStatsEntry 2}	Integer32	NA	[Standard] ID to identify ports. Same as ifIndex. [Implementation] Same as the standard. The item is assigned to any port activated with the `lldp enable` configuration command.	Y
4	axslldpStatsOperStatus {axslldpStatsEntry 3}	INTEGER	R/O	[Standard] Status of the port: {portUp(1), portDown(2)} [Implementation] Same as the standard.	Y
5	axslldpStatsFramesInErrors {axslldpStatsEntry 4}	Counter32	R/O	[Standard] Number of invalid LDPDUs received by the corresponding port. [Implementation] Same as the standard.	Y
6	axslldpStatsFramesInTotal {axslldpStatsEntry 5}	Counter32	R/O	[Standard] Total number of LDPDUs received by the corresponding port. [Implementation] Same as the standard.	Y
7	axslldpStatsFramesOutTotal {axslldpStatsEntry 6}	Counter32	R/O	[Standard] Total number of LDPDUs sent from the corresponding port. [Implementation] Same as the standard.	Y
8	axslldpStatsTLVsInErrors {axslldpStatsEntry 7}	Counter32	R/O	[Standard] Number of invalid TLVs received by the corresponding port. [Implementation] Same as the standard.	Y
9	axslldpStatsTLVsDiscardedTotal {axslldpStatsEntry 8}	Counter32	R/O	[Standard] Total number of TLVs discarded related to the corresponding port. [Implementation] Same as	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
				the standard.	
10	axslldpStatsCounterDiscontinuityTime {axslldpStatsEntry 9}	TimeStamp	R/O	[Standard] Time when the continuity of the statistics counter is lost related to the corresponding port. [Implementation] Not supported.	N

3.8.3 axslldpLocalSystemData group

(1) Identifiers

```
axslldp OBJECT IDENTIFIER ::= {axsMib 100}

axslldpLocalSystemData OBJECT IDENTIFIER ::= {axslldp 3}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.3

axslldpLocChassisType ::= {axslldpLocalSystemData 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.3.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axslldpLocalSystemData group.

Table 3-21 axslldpLocalSystemData group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axslldpLocChassisType {axslldpLocalSystemData 1}	INTEGER	R/O	[Standard] Type of chassis for the Switch: {entPhysicalAlias(1), ifAlias(2), portEntPhysicalAlias(3), backplaneEntPhysicalAlias(4), macAddress(5), networkAddress(6)} [Implementation] Fixed value of macAddress (5).	Y
2	axslldpLocChassisId {axslldpLocalSystemData 2}	OCTET STRING (SIZE(1..255))	R/O	[Standard] Chassis ID (string) of the Switch. [Implementation] MAC address of the switch.	Y
3	axslldpLocSysName {axslldpLocalSystemData 3}	OCTET STRING (SIZE(0..255))	R/O	[Standard] System name (string) of the Switch. Same as sysName in the system group. [Implementation] Same as the standard.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
4	axslldpLocSysDesc {axslldpLocalSystemData 4}	DisplayString (SIZE(0..255))	R/O	[Standard] System information (string) for the Switch. Same as sysDesc in the system group. [Implementation] Same as the standard.	Y
5	axslldpLocSysCapSupported {axslldpLocalSystemData 5}	BITS	R/O	[Standard] Bitmap expression for the list of functions supported by the Switch: {repeater(0), bridge(1), accessPoint(2), router(3), telephone(4), wirelessStation(5), stationOnly(6)} [Implementation] Not supported.	N
6	axslldpLocSysCapEnabled {axslldpLocalSystemData 6}	BITS	R/O	[Standard] Bitmap expression for the list of functions running on the Switch: {repeater(0), bridge(1), accessPoint(2), router(3), telephone(4), wirelessStation(5), stationOnly(6)} [Implementation] Not supported.	N
7	axslldpLocPortTable {axslldpLocalSystemData 7}	SEQUENCE OF axslldpLocPortEntry	NA	[Standard] Table related to the ports on the Switch. [Implementation] Same as the standard.	Y
8	axslldpLocPortEntry {axslldpLocPortTable 1}	axslldpLocPortEntry	NA	[Standard] Entry related to each port of the Switch. INDEX { axslldpLocPortNum } [Implementation] Same as the standard.	Y
9	axslldpLocPortNum {axslldpLocPortEntry 1}	Integer32	NA	[Standard] ID to identify ports. Same as ifIndex. [Implementation] Same as the standard. The item is assigned to any port activated with the `lldp enable` configuration command.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
10	axslldpLocPortType {axslldpLocPortEntry 2}	INTEGER	R/O	[Standard] Port type of the corresponding port on the Switch: {ifAlias(1), portEntPhysicalAlias(2), backplaneEntPhysicalAlias(3), macAddress(4), networkAddress(5), local(6)} [Implementation] Fixed value of macAddress (4).	Y
11	axslldpLocPortId {axslldpLocPortEntry 3}	OCTET STRING (SIZE(1..255))	R/O	[Standard] Port ID of the corresponding port on the Switch (string). [Implementation] MAC address of the port.	Y
12	axslldpLocPortDesc {axslldpLocPortEntry 4}	OCTET STRING (SIZE(0..255))	R/O	[Standard] Port information of the corresponding port on the Switch (string). Same as ifDescr for a port. [Implementation] Same as the standard.	Y
13	axslldpLocManAddrTable {axslldpLocalSystemData 8}	SEQUENCE OF axslldpLocManAddrEntry	NA	[Standard] Table related to the management address of the Switch. [Implementation] Not supported.	N
14	axslldpLocManAddrEntry {axslldpLocManAddrTable 1}	axslldpLocManAddrEntry	NA	[Standard] Information on the management address for each chassis. INDEX { axslldpLocManAddrType, axslldpLocManAddr } [Implementation] Not supported.	N
15	axslldpLocManAddrType {axslldpLocManAddrEntry 1}	AddressFamilyNumbers	NA	[Standard] Type of management address. [Implementation] Not supported.	N
16	axslldpLocManAddr {axslldpLocManAddrEntry 2}	OCTET STRING (SIZE (1..31))	NA	[Standard] Management address of the Switch. [Implementation] Not supported.	N
17	axslldpLocManAddrIfSubtype {axslldpLocManAddrEntry 3}	INTEGER	R/O	[Standard] Type of interface numbers: {unknown(1), ifIndex(2), systemPortNumber(3)} [Implementation] Not supported.	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
18	axslldpLocManAddrIfId {axslldpLocManAddrEntry 4}	OCTET STRING (SIZE(4))	R/O	[Standard] Interface number corresponding to the management address. [Implementation] Not supported.	N
19	axslldpLocManAddrOID {axslldpLocManAddrEntry 5}	OBJECT IDENTIFIER	R/O	[Standard] Object ID of the hardware or protocol related to the management address. [Implementation] Not supported.	N

3.8.4 axslldpRemoteSystemData group

(1) Identifiers

```
axslldp OBJECT IDENTIFIER ::= {axsMib 100}

axslldpRemoteSystemData OBJECT IDENTIFIER ::= {axslldp 4}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.4

axslldpRemTable ::= {axslldpRemoteSystemData 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.4.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axslldpRemoteSystemData group.

Table 3-22 axslldpRemoteSystemData group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axslldpRemTable {axslldpRemoteSystemData 1}	SEQUENCE OF axslldpRemEntry	NA	[Standard] Table describing the neighboring switch. [Implementation] Same as the standard.	Y
2	axslldpRemEntry {axslldpRemTable 1}	axslldpRemEntry	NA	[Standard] Entry describing the neighboring switch. INDEX { axslldpRemLocalPortNum, axslldpRemIndex }#	Y
3	axslldpRemTimeMark {axslldpRemEntry 1}	TimeFilter	NA	[Standard] Elapsed time since the information describing the corresponding neighboring switch was obtained. [Implementation] Not supported.	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
4	axslldpRemLocalPortNum {axslldpRemEntry 2}	Integer32	R/O	[Standard] ID of the port on the Switch through which the information describing the corresponding neighboring switch is obtained. Same as ifIndex. [Implementation] Same as the standard. The item is assigned to any port activated with the `lldp enable` configuration command.	Y
5	axslldpRemIndex {axslldpRemEntry 3}	Integer32 (1..2147483647)	R/O	[Standard] Index related to the neighboring switch. [Implementation] Same as the standard.	Y
6	axslldpRemRemoteChassisType {axslldpRemEntry 4}	INTEGER	R/O	[Standard] Chassis type of the neighboring switch: {entPhysicalAlias(1), ifAlias(2), portEntPhysicalAlias(3), backplaneEntPhysicalAlias(4), macAddress(5), networkAddress(6)} [Implementation] Same as the standard.	Y
7	axslldpRemRemoteChassis {axslldpRemEntry 5}	OCTET STRING (SIZE(1..255))	R/O	[Standard] Chassis ID of the neighboring switch (string). [Implementation] Same as the standard.	Y
8	axslldpRemRemotePortType {axslldpRemEntry 6}	INTEGER	R/O	[Standard] Port type of the corresponding port on the neighboring switch: {ifAlias(1), portEntPhysicalAlias(2), backplaneEntPhysicalAlias(3), macAddress(4), networkAddress(5), local(6)} [Implementation] Same as the standard.	Y
9	axslldpRemRemotePort {axslldpRemEntry 7}	OCTET STRING (SIZE(1..255))	R/O	[Standard] Port ID (string) of the corresponding port on the neighboring switch. [Implementation] Same as the standard.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
10	axslldpRemPortDesc {axslldpRemEntry 8}	OCTET STRING (SIZE(0..255))	R/O	[Standard] Information (string) on the corresponding port on the neighboring switch. [Implementation] Same as the standard.	Y
11	axslldpRemSysName {axslldpRemEntry 9}	OCTET STRING (SIZE(0..255))	R/O	[Standard] System name (string) of the neighboring switch. [Implementation] Same as the standard.	Y
12	axslldpRemSysDesc {axslldpRemEntry 10}	OCTET STRING (SIZE(0..255))	R/O	[Standard] System (string) information about the neighboring switch. [Implementation] Same as the standard.	Y
13	axslldpRemSysCapSupported {axslldpRemEntry 11}	BITS	R/O	[Standard] Bitmap expression for the list of functions supported by the neighboring switch: {repeater(0), bridge(1), accessPoint(2), router(3), telephone(4), wirelessStation(5), stationOnly(6)} [Implementation] Not supported.	N
14	axslldpRemSysCapEnabled {axslldpRemEntry 12}	BITS	R/O	[Standard] Bitmap expression for the list of functions running on the neighboring switch: {repeater(0), bridge(1), accessPoint(2), router(3), telephone(4), wirelessStation(5), stationOnly(6)} [Implementation] Not supported.	N
15	axslldpRemManAddrTable {axslldpRemoteSystemsData 2}	SEQUENCE OF axslldpRemManAddrEntry	NA	[Standard] Table related to the management addresses of the neighboring switches learned by the Switch. [Implementation] Not supported.	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
16	axslldpRemManAddrEntry {axslldpRemManAddrTable 1}	axslldpRemManAddrEntry	NA	[Standard] Table of the management addresses of the neighboring switch. INDEX { axslldpRemTimeMark, axslldpRemLocalPortNum, axslldpRemIndex, axslldpRemManAddrType, axslldpRemManAddr } [Implementation] Not supported.	N
17	axslldpRemManAddrType {axslldpRemManAddrEntry 1}	AddressFamilyNumbers	NA	[Standard] Type of management address. [Implementation] Not supported.	N
18	axslldpRemManAddr {axslldpRemManAddrEntry 2}	OCTET STRING (SIZE (1..31))	NA	[Standard] Management address of the neighboring switch. [Implementation] Not supported.	N
19	axslldpRemManAddrIfSubtype {axslldpRemManAddrEntry 3}	INTEGER	R/O	[Standard] Type of interface number: {unknown(1), ifIndex(2), systemPortNumber(3)} [Implementation] Not supported.	N
20	axslldpRemManAddrIfId {axslldpRemManAddrEntry 4}	OCTET STRING (SIZE(4))	R/O	[Standard] Interface number corresponding to the management address of the neighboring switch. [Implementation] Not supported.	N
21	axslldpRemManAddrOID {axslldpRemManAddrEntry 5}	OBJECT IDENTIFIER	R/O	[Standard] Object ID of the hardware or the protocol related to the administration address of the neighboring switch. [Implementation] Not supported.	N
22	axslldpRemOrgDefInfoTable {axslldpRemoteSystemsData 3}	SEQUENCE OF axslldpRemOrgDefInfoEntry	NA	[Standard] Table related to the manufacturer-specific TLVs on the neighboring switch. [Implementation] Same as the standard.	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
23	axslldpRemOrgDefInfoEntry {axslldpRemOrgDefTable 1}	axslldpRemOrgDefInfoEntry	NA	[Standard] Entry related to the manufacturer-specific TLVs on the neighboring switch. INDEX { axslldpRemTimeMark, axslldpRemLocalPortNum, axslldpRemIndex, axslldpRemOrgDefOUI, axslldpRemOrgDefSubtype, axslldpRemOrgDefIndex } [Implementation] Not supported.	N
24	axslldpRemOrgDefInfoOUI {axslldpRemOrgDefEntry 1}	OCTET STRING (SIZE(3))	NA	[Standard] OUI about the manufacturer-specific TLV on the neighboring switch. [Implementation] Not supported.	N
25	axslldpRemOrgDefInfoSubtype {axslldpRemOrgDefEntry 2}	Integer32 (1..255)	NA	[Standard] Subtype of the manufacturer-specific TLV on the neighboring switch. [Implementation] Not supported.	N
26	axslldpRemOrgDefInfoIndex {axslldpRemOrgDefEntry 3}	Integer32 (1..2147483647)	NA	[Standard] ID of the manufacturer-specific TLV on the neighboring switch. [Implementation] Not supported.	N
27	axslldpRemOrgDefInfo {axslldpRemOrgDefEntry 4}	OCTET STRING (SIZE(0..507))	R/O	[Standard] Information on the manufacturer-specific TLV on the neighboring switch. [Implementation] Not supported.	N

#: axslldpRemTimeMark, which is included in the standard, is excluded because it is not supported.

3.8.5 axslldpRemoteOriginInfoData group

(1) Identifiers

```
axslldp OBJECT IDENTIFIER ::= {axsMib 100}

axslldpRemoteOriginInfoData OBJECT IDENTIFIER ::= {axslldp 20}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.20

axslldpRemOriginInfoTable OBJECT IDENTIFIER ::=
{axslldpRemoteOriginInfoData 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.100.20.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axslldpRemoteOriginInfoData group.

Table 3-23 axslldpRemoteOriginInfoData group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axslldpRemOriginInfoTable {axslldpRemoteOriginInfoData 1}	SEQUENCE OF axslldpRemOriginInfoTable	NA	Table related to ALAXALA TLVs in the neighboring switch	Y
2	axslldpRemOriginInfoEntry {axslldpRemOriginInfoTable 1}	axslldpRemOriginInfoEntry	NA	Entry about the neighboring switch. INDEX {axslldpRemOriginInfoLocalPortNum, axslldpRemOriginInfoIndex }	Y
3	axslldpRemOriginInfoPortNum {axslldpRemOriginInfoEntry 1}	Integer32	NA	Port identification index of the port on the Switch that received information on the neighboring switch. Same as ifIndex.	Y
4	axslldpRemOriginInfoIndex {axslldpRemOriginInfoEntry 2}	INTEGER	NA	Index for the neighboring switch	Y
5	axslldpRemOriginInfoLowerVlanList {axslldpRemOriginInfoEntry 3}	OCTET STRING (SIZE(256))	R/O	Bitmap expression for valid VLAN IDs out of VLAN 1-2047 at the corresponding port on the neighboring switch (the first bit (2^7th bit of the zeroth byte) specifies the existence of an untagged definition, and the subsequent bits specify the validity of VLAN 1-2047). ● bit is 0: The VLAN is invalid. ● bit is 1: The VLAN is valid.	Y
6	axslldpRemOriginInfoHigherVlanList {axslldpRemOriginInfoEntry 4}	OCTET STRING (SIZE(256))	R/O	Bitmap expression for valid VLAN IDs out of VLAN 2048-4095 on the corresponding port of the neighboring switch (validity of VLAN 2048-4095 is indicated by the sequence beginning from the first bit (2^7th bit of the zeroth byte)). ● bit is 0: The VLAN is invalid. ● bit is 1: The VLAN is valid.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
7	axslldpRemOriginInfoIPv4Address {axslldpRemOriginInfoEntry 5}	OCTET STRING (SIZE(0..15))	R/O	[If only untagged is defined in axslldpRemOriginInfoLowerVlanList:] IPv4 address assigned to the corresponding port of the neighboring switch (string) [Otherwise:] IPv4 address assigned to the VLAN that has the smallest VLAN ID among the valid VLANs on the corresponding port of the neighboring switch (string)	Y
8	axslldpRemOriginInfoIPv4PortType {axslldpRemOriginInfoEntry 6}	INTEGER	R/O	Port type of the corresponding port on the neighboring switch: {Bridge port (0), Router port (1)} ● Bridge port (0): Port included either in a port without an IP address definition or in a VLAN that has an assigned IP address ● Router port (1): Any port other than that described above	Y
9	axslldpRemOriginInfoIPv4VlanId {axslldpRemOriginInfoEntry 7}	INTEGER	R/O	[If axslldpRemOriginInfoIPv4PortType is a bridge port:] The smallest VLAN ID among the IDs of VLANs that have an assigned IPv4 address [If axslldpRemOriginInfoIPv4PortType is a router port:] Fixed value of 0.	Y
10	axslldpRemOriginInfoIPv6Address {axslldpRemOriginInfoEntry 8}	OCTET STRING (SIZE(0..45))	R/O	[If only untagged is defined in axslldpRemOriginInfoLowerVlanList:] IPv6 address (string) assigned to the corresponding port on the neighboring switch [Otherwise:] IPv6 address (string) assigned to the VLAN that has the smallest VLAN ID among the valid VLANs on the corresponding port of the neighboring switch	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
11	axslldpRemOriginInfoIPv6PortType {axslldpRemOriginInfoEntry 9}	INTEGER	R/O	Port type of the corresponding port on the neighboring switch: {Bridge port(0), Router port (1)} ● Bridge port (0): Port included either in a port without an IP address definition or in a VLAN that has an assigned IP address ● Router port (1): Any port other than that described above	Y
12	axslldpRemOriginInfoIPv6VlanId {axslldpRemOriginInfoEntry 10}	INTEGER	R/O	[If axslldpRemOriginInfoIPv6PortType is a bridge port:] Smallest VLAN ID among the IDs of VLANs that have an assigned IPv6 address [If axslldpRemOriginInfoIPv6PortType is a router port:] Fixed value of 0.	Y

3.9 axsAxrpMIB group (Ring Protocol information)

3.9.1 axsAxrpGroupTable group

(1) Identifiers

```
axsAxrp OBJECT IDENTIFIER ::= {axsMib 200}

axsAxrpGroupTable OBJECT IDENTIFIER ::= {axsAxrp 1}
Object ID value 1.3.6.1.4.1.21839.2.2.1.200.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsAxrpGroupTable group.

Table 3-24 axsAxrpGroupTable group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsAxrpGroupTable {axsAxrp 1}	NOT-ACCESSIBLE	NA	Table containing information on the ring protocol group	Y
2	axsAxrpGroupEntry {axsAxrpGroupTable 1}	NOT-ACCESSIBLE	NA	List of information on the ring protocol group. INDEX { axsAxrpGroupRingId }	Y
3	axsAxrpGroupRingId {axsAxrpGroupEntry 1}	INTEGER	NA	Ring ID (1-65535)	Y
4	axsAxrpGroupRowStatus {axsAxrpGroupEntry 2}	RowStatus	R/O	Validity of this entry. Fixed value of Active.	Y
5	axsAxrpGroupMode {axsAxrpGroupEntry 3}	INTEGER	R/O	Mode of each Ring ID: ● no config (1): Configuration command mode is not set up ● transit (3): Transit node	Y
6	axsAxrpGroupRingAttribute {axsAxrpGroupEntry 4}	INTEGER	R/O	In a multi-ring configuration, the attribute of the Switch in the ring without shared link monitoring: ● no config (1): No attribute	Y
7	axsAxrpGroupMonitoringState {axsAxrpGroupEntry 5}	INTEGER	R/O	Operational and monitoring state of the ring: ● init (1): Initializing ● disable (2): Disabled ● flush monitoring (5): Under monitoring of flush control frames ● not operating (6): Not operable	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
8	axsAxrpGroupRingport1 {axsAxrpGroupEntry 6}	INTEGER	R/O	ifIndex of ring port 1 (with the smaller ifIndex)#	Y
9	axsAxrpGroupRingport1Shared {axsAxrpGroupEntry 7}	INTEGER	R/O	State of sharing of ring port 1:# ● no config (1) ● shared (3)	Y
10	axsAxrpGroupRingport2 {axsAxrpGroupEntry 8}	INTEGER	R/O	ifIndex of ring port 2 (with the larger ifIndex)#	Y
11	axsAxrpGroupRingport2Shared {axsAxrpGroupEntry 9}	INTEGER	R/O	State of sharing of ring port 2:# ● no config (1) ● shared (3)	Y
12	axsAxrpGroupTransitionToFaultCounts {axsAxrpGroupEntry 10}	Counter	R/O	Number of transitions from the fault monitoring state to the recovery monitoring state ● Fixed value of 0	Y
13	axsAxrpGroupTransitionToNormalCounts {axsAxrpGroupEntry 11}	Counter	R/O	Number of transitions from the recovery monitoring state to the fault monitoring state ● Fixed value of 0	Y
14	axsAxrpGroupLastTransitionTime {axsAxrpGroupEntry 12}	TimeStamp	R/O	Time of the most recent transition from recovery monitoring to fault monitoring, or from fault monitoring to recovery monitoring ● Fixed value of 0	Y
15	axsAxrpGroupMultiFaultDetectionState {axsAxrpGroupEntry 22}	INTEGER	R/O	Multi-fault monitoring of the ring protocol: ● not monitoring (1) ● normal (2) ● fault (3) Returns a fixed value (1) in the Switch.	Y

#: MIB information for ring port 1 or ring port 2 cannot be obtained unless the ring port is configured. Configure the ring port to obtain the MIB information.

3.9.2 axsAxrpVlanGroupTable group

(1) Identifiers

```
axsAxrp OBJECT IDENTIFIER ::= {axsMib 200}

axsAxrpVlanGroupTable OBJECT IDENTIFIER ::= {axsAxrp 2}
Object ID value 1.3.6.1.4.1.21839.2.2.1.200.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the axsAxrpVlanGroupTable group.

Table 3-25 axsAxrpVlanGroup group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	axsAxrpVlanGroupTable {axsAxrp 2}	NOT-ACCESSIBLE	NA	Table containing information on the ring protocol VLAN groups	Y
2	axsAxrpVlanGroupEntry {axsAxrpVlanGroupTable 1}	NOT-ACCESSIBLE	NA	List of ring port information on the VLAN groups. INDEX { axsAxrpVlanGroupRingId , axsAxrpVlanGroupId }	Y
3	axsAxrpVlanGroupRingId {axsAxrpVlanGroupEntry 1}	INTEGER	NA	Ring ID (1-65535)	Y
4	axsAxrpVlanGroupId {axsAxrpVlanGroupEntry 2}	INTEGER	NA	VLAN group ID	Y
5	axsAxrpVlanGroupRingport1 {axsAxrpVlanGroupEntry 3}	INTEGER	R/O	ifIndex of ring port 1 (with the smaller ifIndex)#	Y
6	axsAxrpVlanGroupRingport1Role {axsAxrpVlanGroupEntry 4}	INTEGER	R/O	Role of ring port 1:# ● other (3)	Y
7	axsAxrpVlanGroupRingport1OperState {axsAxrpVlanGroupEntry 5}	INTEGER	R/O	Current state of ring port 1:# ● forwarding (1) ● blocking (2) ● other (3) ● down (4)	Y
8	axsAxrpVlanGroupRingport2 {axsAxrpVlanGroupEntry 6}	INTEGER	R/O	ifIndex of ring port 2 (with the larger ifIndex)#	Y
9	axsAxrpVlanGroupRingport2Role {axsAxrpVlanGroupEntry 7}	INTEGER	R/O	Role of ring port 2:# ● other (3)	Y
10	axsAxrpVlanGroupRingport2OperState {axsAxrpVlanGroupEntry 8}	INTEGER	R/O	Current state of ring port 2:# ● forwarding (1) ● blocking (2) ● other (3) ● down (4)	Y

#: MIB information for ring port 1 or ring port 2 cannot be obtained unless the ring port is configured. Configure the ring port to obtain the MIB information.

3.10 ax2230sSwitch group (system switch model information MIB) [AX2200S]

(1) Identifiers

```
ax2230sMib     OBJECT IDENTIFIER ::= {axsEx 18}

ax2230sSwitch  OBJECT IDENTIFIER ::= {ax2230sMib 1}
Object ID value 1.3.6.1.4.1.21839.2.2.18.1

ax2230sSoftware  OBJECT IDENTIFIER ::= {ax2230sSwitch 2}
Object ID value 1.3.6.1.4.1.21839.2.2.18.1.2

ax2230sSystemMsg OBJECT IDENTIFIER ::= {ax2230sSwitch 3}
Object ID value 1.3.6.1.4.1.21839.2.2.18.1.3

ax2230sSnmpAgent OBJECT IDENTIFIER ::= {ax2230sSwitch 4}
Object ID value 1.3.6.1.4.1.21839.2.2.18.1.4

ax2230sLicense   OBJECT IDENTIFIER ::= {ax2230sSwitch 6}
Object ID value 1.3.6.1.4.1.21839.2.2.18.1.6
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sSwitch group.

Table 3-26 ax2230sSwitch group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sModelType {ax2230sSwitch 1}	INTEGER	R/O	System device model information (numeric value): ● AX2230S-24T(1800) ● AX2230S-24P(1801)	Y
2	ax2230sSoftwareName {ax2230sSoftware 1}	DisplayString	R/O	Name of the software in operation. Fixed value of 0 for length	Y
3	ax2230sSoftwareAbbreviation {ax2230sSoftware 2}	DisplayString	R/O	Abbreviation of the software in operation. ● OS-LT4	Y
4	ax2230sSoftwareVersion {ax2230sSoftware 3}	DisplayString	R/O	The version of the software in operation.	Y
5	ax2230sSystemMsgText {ax2230sSystemMsg 1}	DisplayString	R/O	Latest log information in the operational log. The latest entry information in the system message log (maximum of 256 characters). For the format of the logs, see *1.1.1 Format of messages* in the manual *Message Log Reference*.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
6	ax2230sSystemMsgType {ax2230sSystemMsg 2}	OCTET STRING	R/O	Indicates the event type in one byte: ● An event occurred (01). ● An event is recovered (02). Fixed value of (01).	Y
7	ax2230sSystemMsgTimeStamp {ax2230sSystemMsg 3}	DisplayString	R/O	Time an event occurred (month, day, hour, minutes, and seconds), expressed as a 14-byte string in the following format: *MM*/*DD* *hh*:*mm*:*ss* ● *MM*: month (01-12) ● *DD*: day (01-31) ● *hh*: hour (00-23) ● *mm*: minute (00-59) ● *ss*: second (00-59) A 1-byte space is inserted between *DD* and *hh*.	Y
8	ax2230sSystemMsgLevel {ax2230sSystemMsg 4}	OCTET STRING	R/O	Level of the latest system message log expressed as a 1-byte number. ● Fatal fault (1) ● Severe fault (2) ● Software failure (3) ● Warning (4) ● Information (6)	Y
9	ax2230sSystemMsgEventPoint {ax2230sSystemMsg 5}	DisplayString	R/O	String of no more than 8 bytes indicating the fault point reported in the system message. For details about the event locations, see *1.1.2 (3) Event location* in the manual *Message Log Reference*.	Y
10	ax2230sSystemMsgEventInterfaceID {ax2230sSystemMsg 6}	DisplayString	R/O	String indicating the interface Identifier in the system message (maximum of 40 characters). Not applicable.	Y
11	ax2230sSystemMsgEventCode {ax2230sSystemMsg 7}	OCTET STRING	R/O	4-byte message ID code of the system message (0x00000000-0xFFFFFFFF). An error code is indicated in 4 bytes.	Y
12	ax2230sSystemMsgAdditionalCode {ax2230sSystemMsg 8}	OCTET STRING	R/O	6-byte ID code of additional information for the system message (0x000000000000-0xFFFFFFFFFFFF). The contents of the codes	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
				are not made public because they are for maintenance purposes.	
13	ax2230sSnmpSendReceiveSize {ax2230sSnmpAgent 1}	INTEGER	R/O	Size of the SNMP packets an agent can send and receive (in bytes)	Y
14	ax2230sSnmpReceiveDelay {ax2230sSnmpAgent 2}	INTEGER	R/O	Recommended delaying interval for receiving SNMP packets (in milliseconds)	Y
15	ax2230sSnmpContinuousSend {ax2230sSnmpAgent 3}	INTEGER	R/O	Recommended number of sequential sends of SNMP packets	Y
16	ax2230sSnmpObjectMaxNumber {ax2230sSnmpAgent 4}	INTEGER	R/O	Recommended number of objects in an SNMP packet	Y
17	ax2230sLicenseNumber {ax2230sLicense 1}	INTEGER	R/O	Number of configured license serial numbers	Y
18	ax2230sLicenseTable {ax2230sLicense 2}	NOT-ACCESSIBLE	NA	Table of license information	Y
19	ax2230sLicenseEntry {ax2230sLicenseTable 1}	NOT-ACCESSIBLE	NA	A license information entry INDEX {ax2230sLicenseIndex}	Y
20	ax2230sLicenseIndex {ax2230sLicenseEntry 1}	INTEGER	NA	Unique index number assigned to each serial number. Number in the range 1–ax2230sLicenseNumber.	Y
21	ax2230sLicenseSerialNumber {ax2230sLicenseEntry 2}	DisplayString	R/O	Serial number	Y
22	ax2230sLicenseOptionNumber {ax2230sLicenseEntry 3}	INTEGER	R/O	Number of option licenses related to a serial number	Y
23	ax2230sLicenseOptionTable {ax2230sLicense 3}	NOT-ACCESSIBLE	NA	Table of the option licenses related to a serial number	Y
24	ax2230sLicenseOptionEntry {ax2230sLicenseOptionTable 1}	NOT-ACCESSIBLE	NA	Entry of the option licenses related to a serial number. INDEX {ax2230sLicenseOptionIndex	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
				ax2230sLicenseOptionNumberIndex }	
25	ax2230sLicenseOptionIndex {ax2230sLicenseOptionEntry 1}	INTEGER	NA	Unique index number assigned to each serial number. Equal to ax2230sLicenseIndex.	Y
26	ax2230sLicenseOptionNumberIndex {ax2230sLicenseOptionEntry 2}	INTEGER	NA	Index number of the option license related to a serial number. Number in the range 1–ax2230sLicenseOptionNumber.	Y
27	ax2230sLicenseOptionSoftwareName {ax2230sLicenseOptionEntry 3}	DisplayString	R/O	Software model name of the option license related to a serial number	Y
28	ax2230sLicenseOptionSoftwareAbbreviation {ax2230sLicenseOptionEntry 4}	DisplayString	R/O	Abbreviation of the software of the option license related to a serial number	Y

3.11 ax2230sDevice group (system switch chassis information MIB) [AX2200S]

3.11.1 ax2230sChassis group implementation specifications (chassis information)

(1) Identifiers

```
ax2230sDevice  OBJECT IDENTIFIER ::= {ax2230sMib 2}
ax2230sChassis          OBJECT IDENTIFIER ::= {ax2230sDevice 1}

ax2230sChassisMaxNumber OBJECT IDENTIFIER ::= {ax2230sChassis 1}
Object ID value 1.3.6.1.4.1.21839.2.2.18.2.1.1

ax2230sChassisTable     OBJECT IDENTIFIER ::= {ax2230sChassis 2}
Object ID value 1.3.6.1.4.1.21839.2.2.18.2.1.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sChassis group (chassis information).

Table 3-27 ax2230sChassis group implementation specifications (Chassis information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sChassisMaxNumber {ax2230sChassis 1}	INTEGER	R/O	Maximum number of cluster chassis connected to the Switch. ● For AX2200S series switches: Fixed value of 1	Y
2	ax2230sChassisTable {ax2230sChassis 2}	NOT-ACCESSIBLE	NA	Table of the chassis information	Y
3	ax2230sChassisEntry {ax2230sChassisTable 1}	NOT-ACCESSIBLE	NA	Entry of information on a specific chassis. INDEX {ax2230sChassisIndex}	Y
4	ax2230sChassisIndex {ax2230sChassisEntry 1}	NOT-ACCESSIBLE	NA	Index to identify ax2230sChassisEntry. Fixed value of 1.	Y
5	ax2230sChassisType {ax2230sChassisEntry 2}	INTEGER	R/O	Chassis type: ● AX2230S-24T(1800) ● AX2230S-24P(1801)	Y
6	ax2230sChassisStatus {ax2230sChassisEntry 3}	INTEGER	R/O	Current status of the chassis. Fixed value of in operation (2).	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
7	ax2230sStsLedStatus {ax2230sChassisEntry 4}	INTEGER	R/O	Status of ST1 LED of the switch. ● Stable red (0) ● Blinking red (1) ● Stable orange (2) ● Blinking orange (3) ● Blinking green (4) ● Stable green (5) ● Off (6)	Y
8	ax2230sCpuName {ax2230sChassisEntry 5}	DisplayString	R/O	CPU Name (maximum of 16 characters).	N
9	ax2230sCpuClock {ax2230sChassisEntry 6}	INTEGER	R/O	CPU clock (in MHz).	N
10	ax2230sMemoryTotalSize {ax2230sChassisEntry 7}	INTEGER	R/O	Amount of installed memory (in KB)	Y
11	ax2230sMemoryUsedSize {ax2230sChassisEntry 8}	INTEGER	R/O	Amount of used memory (in KB)	Y
12	ax2230sMemoryFreeSize {ax2230sChassisEntry 9}	INTEGER	R/O	Amount of unused memory (in KB)	Y
13	ax2230sRomVersion {ax2230sChassisEntry 10}	DisplayString	R/O	Version of the installed ROM (string).	N
14	ax2230sCpuLoad1m {ax2230sChassisEntry 11}	INTEGER	R/O	Percentage of CPU usage over a one-minute period (0-100)	Y
15	ax2230sFlashTotalSize {ax2230sChassisEntry 12}	INTEGER	R/O	Sum of the amount of used and unused memory in the file system of the embedded flash memory (in KB)	N
16	ax2230sFlashUsedSize {ax2230sChassisEntry 13}	INTEGER	R/O	Amount of used memory in the file system of the embedded flash memory (in KB)	N
17	ax2230sFlashFreeSize {ax2230sChassisEntry 14}	INTEGER	R/O	Amount of unused memory in the file system of the embedded flash memory (in KB)	N
18	ax2230sSdCardStatus {ax2230sChassisEntry 15}	INTEGER	R/O	Status of the connection with an MC connection: ● Connected (2) ● Not connected (32)	N
19	ax2230sSdCardTotalSize {ax2230sChassisEntry 16}	INTEGER	R/O	Total capacity of the MC (in KB).	N
20	ax2230sSdCardUsedSize	INTEGER	R/O	Used capacity of the MC (in KB).	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
	{ax2230sChassisEntry 17}				
21	ax2230sSdCardFreeSize {ax2230sChassisEntry 18}	INTEGER	R/O	Amount of unused MC capacity (in KB).	N
22	ax2230sPhysLineNumber {ax2230sChassisEntry 19}	INTEGER	R/O	Number of ports available for connection to this chassis	Y
23	ax2230sTemperatureStatusNumber {ax2230sChassisEntry 20}	INTEGER	R/O	Maximum number of temperature monitoring points in this chassis For AX2200S series switches: Fixed value of 1	Y
24	ax2230sPowerUnitNumber {ax2230sChassisEntry 21}	INTEGER	R/O	Number of power supplies available in this chassis For AX2200S series switches: Fixed value of 1	Y
25	ax2230sRedundantPsNumber {ax2230sChassisEntry 22}	INTEGER	R/O	Number of external power supplies that can be installed in this chassis. For AX2200S: 0	Y
26	ax2230sFanNumber {ax2230sChassisEntry 23}	INTEGER	R/O	Number of main fans in this chassis ● For the AX2230S-24T: 0 ● For the AX2230S-24T: 4	Y
27	ax2230sTotalAccumRunTime{ax2230sChassisEntry 24}	INTEGER	R/O	Total run time of the switch since startup.	Y
28	ax2230sCriticalAccumRunTime{ax2230sChassisEntry 25}	INTEGER	R/O	Total time this switch ran in an environment exceeding 40°C.	Y

3.11.2 ax2230sChassis group implementation specifications (temperature information)

(1) Identifiers

```
ax2230sChassis          OBJECT IDENTIFIER ::= {ax2230sDevice 1}

ax2230sTemperatureStatusTable OBJECT IDENTIFIER ::= {ax2230sChassis 3}
Object ID value 1.3.6.1.4.1.21839.2.2.18.2.1.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sChassis group (temperature information).

Table 3-28 ax2230sChassis group implementation specifications (temperature information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sTemperatureStatus Table {ax2230sChassis 3}	NOT-ACCESSIBLE	NA	Table of the temperature status	Y
2	ax2230sTemperatureStatus Entry {ax2230sTemperatureStatus Table 1}	NOT-ACCESSIBLE	NA	Entry of temperature status. INDEX {ax2230sChassisIndex, ax2230sTemperatureStatusIndex}	Y
3	ax2230sTemperatureStatusIndex {ax2230sTemperatureStatus Entry 1}	NOT-ACCESSIBLE	NA	Unique index assigned to each temperature monitoring point	Y
4	ax2230sTemperatureStatus Descr {ax2230sTemperatureStatus Entry 2}	DisplayString	R/O	Description of this temperature monitoring point. ● Main board Temperature:	Y
5	ax2230sTemperatureStatus Value {ax2230sTemperatureStatus Entry 3}	Integer32	R/O	Current temperature of this monitoring point However, it is 0°C for 60 minutes after the Switch is started.	Y
6	ax2230sTemperatureThreshold {ax2230sTemperatureStatus Entry 4}	Integer32	R/O	Temperature on this monitoring point where the Switch is stopped	Y
7	ax2230sTemperatureState {ax2230sTemperatureStatus Entry 5}	INTEGER	R/O	Current temperature state of this monitoring point: ● Normal (1) ● Caution (2)	Y

3.11.3 ax2230sChassis group implementation specifications (power supply information)

(1) Identifiers

```
ax2230sChassis        OBJECT IDENTIFIER ::= {ax2230sDevice 1}

ax2230sPowerUnitTable OBJECT IDENTIFIER ::= {ax2230sChassis 4}
Object ID value 1.3.6.1.4.1.21839.2.2.18.2.1.4
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sChassis group (power supply information).

Table 3-29 ax2230sChassis group implementation specifications (power supply information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sPowerUnitTable {ax2230sChassis 4}	NOT-ACCESSIBLE	NA	Table of the power supply information	Y
2	ax2230sPowerUnitEntry {ax2230sPowerUnitTable 1}	NOT-ACCESSIBLE	NA	Entry of the power supply information. INDEX {ax2230sChassisIndex, ax2230sPowerUnitIndex}	Y
3	ax2230sPowerUnitIndex {ax2230sPowerUnitEntry 1}	NOT-ACCESSIBLE	NA	Index indicating the position of the power supply. Number in the range 1-ax2230sPowerUnitNumber. ● For AX2200S: 1	Y
4	ax2230sPowerConnectStatus {ax2230sPowerUnitEntry 2}	INTEGER	R/O	Installation status of the power supplies: ● Installed (2) ● Not installed (32) Fixed value of 2	Y
5	ax2230sPowerSupplyStatus {ax2230sPowerUnitEntry 3}	INTEGER	R/O	Power status: ● In operation (2) ● Fault (4) Fixed value of 2	Y

3.11.4 ax2230sChassis group implementation specifications (fan information)

(1) Identifiers

```
ax2230sChassis   OBJECT IDENTIFIER ::= {ax2230sDevice 1}

ax2230sFanTable  OBJECT IDENTIFIER ::= {ax2230sChassis 5}
Object ID value 1.3.6.1.4.1.21839.2.2.18.2.1.5
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sChassis group (fan information).

Table 3-30 ax2230sChassis group implementation specifications (fan information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sFanTable {ax2230sChassis 5}	NOT-ACCESSIBLE	NA	Table of the fan information	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
2	ax2230sFanEntry {ax2230sFanTable 1}	NOT-ACCESSIBLE	NA	Entry of the fan information. INDEX {ax2230sChassisIndex, ax2230sFanIndex}	Y
3	ax2230sFanIndex {ax2230sFanEntry 1}	NOT-ACCESSIBLE	NA	Index that indicates the position of the main fan. Number in the range 1-ax2230sFanNumber. ● For AX2230S-24T: none ● For AX2230S-24P: 1-4	Y
4	ax2230sFanStatus {ax2230sFanEntry 2}	INTEGER	R/O	Status of the main fan. ● In operation (2) ● Fault (4) ● Operation stop (5)	Y

3.11.5 ax2230sPhysLine group implementation specifications ((physical) line information)

(1) Identifiers

```
ax2230sPhysLine      OBJECT IDENTIFIER ::= {ax2230sDevice 2}

ax2230sPhysLineTable OBJECT IDENTIFIER ::= {ax2230sPhysLine 1}
Object ID value 1.3.6.1.4.1.21839.2.2.18.2.2.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sPhysLine group ((physical) line information).

Table 3-31 ax2230sPhysLine group implementation specifications ((physical) line information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sPhysLineTable {ax2230sPhysLine 1}	NOT-ACCESSIBLE	NA	Table of physical line information	Y
2	ax2230sPhysLineEntry {ax2230sPhysLineTable 1}	NOT-ACCESSIBLE	NA	Information entry on physical lines INDEX {ax2230sChassisIndex, ax2230sPhysLineIndex }	Y
3	ax2230sPhysLineIndex {ax2230sPhysLineEntry 1}	NOT-ACCESSIBLE	NA	Information about the physical line number. Number in the range 1-ax2230sPhysLineNumber. (port-number + 1)	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
4	ax2230sPhysLineConnectorType {ax2230sPhysLineEntry 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-U(307) ● type1000BASE-SX2(308) Returns `other` (1) if either of the following conditions is met: ● The transceiver type is unknown or the transceiver is not interchangeable ● Initializing the status of the physical line	Y
5	ax2230sPhysLineOperStatus {ax2230sPhysLineEntry 3}	INTEGER	R/O	State of the physical line: ● In operation (2) ● stopped with configuration (6) ● In operation (now in line fault) (8) ● Operation stop (InActive) (20)	Y
6	ax2230sPhysLineIfIndexNumber {ax2230sPhysLineEntry 4}	INTEGER	R/O	Number of ifIndex objects in the physical line	Y
7	ax2230sPhysLineTransceiverStatus {ax2230sPhysLineEntry 5}	INTEGER	R/O	Type and installation status of the interchangeable transceiver. Displays unless the physical line status is initializing. ● other, or not an interchangeable transceiver (1) ● SFP transceiver installed (20) ● SFP transceiver not installed (21) ● Unsupported SFP transceiver installed (22) ● SFP transceiver implementation status unknown (23)	Y

3.11.6 ax2230sDeviceError group implementation specifications (switch fault information)

(1) Identifiers

```
ax2230sDevice  OBJECT IDENTIFIER ::= {ax2230sMib 2}

ax2230sDeviceError  OBJECT IDENTIFIER ::= {ax2230sDevice 3}
Object ID value 1.3.6.1.4.1.21839.2.2.18.2.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sDeviceError group (switch fault information).

Table 3-32 ax2230sDeviceError group implementation specifications (switch fault information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sMemoryError {ax2230sDeviceError 1}	Integer32	NA	Details during a memory error: other(0) Parity Error(1)	Y

3.12 ax2230sAuth group (authentication information) [AX2200S]

(1) Identifiers

```
ax2230sAuth       OBJECT IDENTIFIER ::= {ax2230sMib 10}

ax2230sAuthInfo   OBJECT IDENTIFIER ::= {ax2230sAuth 1}
Object ID value 1.3.6.1.4.1.21839.2.2.18.10.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax2230sAuth group (authentication information).

Table 3-33 ax2230sAuth group implementation specifications (authentication information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax2230sAuthSysName {ax2230sAuthInfo 1}	OCTET STRING	NA	Host name of the Switch (Same as sysName in the system group).	Y
2	ax2230sAuthIfIndex {ax2230sAuthInfo 2}	Integer32	NA	Connection port number of authenticated terminal (Same as the ifIndex of an interfaces group).	Y
3	ax2230sAuthSupplicantMac {ax2230sAuthInfo 3}	MacAddress	NA	MAC address of authenticated terminal	Y
4	ax2230sAuthMessage {ax2230sAuthInfo 4}	DisplayString	NA	Message (a maximum of 280 characters)	Y

3.13 ax1250sSwitch group (system device model information MIB) [AX1250S]

(1) Identifiers

```
ax1250sMib     OBJECT IDENTIFIER ::= {axsEx 14}

ax1250sSwitch  OBJECT IDENTIFIER ::= {ax1250sMib 1}
Object ID value 1.3.6.1.4.1.21839.2.2.14.1

ax1250sSoftware  OBJECT IDENTIFIER ::= {ax1250sSwitch 2}
Object ID value 1.3.6.1.4.1.21839.2.2.14.1.2

ax1250sSystemMsg OBJECT IDENTIFIER ::= {ax1250sSwitch 3}
Object ID value 1.3.6.1.4.1.21839.2.2.14.1.3

ax1250sSnmpAgent OBJECT IDENTIFIER ::= {ax1250sSwitch 4}
Object ID value 1.3.6.1.4.1.21839.2.2.14.1.4

ax1250sLicense   OBJECT IDENTIFIER ::= {ax1250sSwitch 6}
Object ID value 1.3.6.1.4.1.21839.2.2.14.1.6
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1250sSwitch group.

Table 3-34 ax1250sSwitch group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1250sModelType {ax1250sSwitch 1}	INTEGER	R/O	System device model information (numeric value): ● AX1250S-24T2C(1400)	Y
2	ax1250sSoftwareName {ax1250sSoftware 1}	DisplayString	R/O	Name of the software in operation. Fixed value of 0 for length	Y
3	ax1250sSoftwareAbbreviation {ax1250sSoftware 2}	DisplayString	R/O	Abbreviation of the software in operation. ● OS-LT3	Y
4	ax1250sSoftwareVersion {ax1250sSoftware 3}	DisplayString	R/O	The version of the software in operation.	Y
5	ax1250sSystemMsgText {ax1250sSystemMsg 1}	DisplayString	R/O	Latest log information in the operational log (string). The latest entry information in the system message log (maximum of 256 characters). For the format of the logs, see *1.1.1 Format of messages* in the manual *Message Log Reference*.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
6	ax1250sSystemMsgType {ax1250sSystemMsg 2}	OCTET STRING	R/O	Indicates the event type in one byte: ● An event occurred (01). ● An event is recovered (02). Fixed value of (01).	Y
7	ax1250sSystemMsgTimeStamp {ax1250sSystemMsg 3}	DisplayString	R/O	Time an event occurred (month, day, hour, minutes, and seconds), expressed as a 14-byte string in the following format: *MM*/*DD hh*:*mm*:*ss* ● *MM*: month (01-12) ● *DD*: day (01-31) ● *hh*: hour (00-23) ● *mm*: minute (00-59) ● *ss*: second (00-59) A 1-byte space is inserted between *DD* and *hh*.	Y
8	ax1250sSystemMsgLevel {ax1250sSystemMsg 4}	OCTET STRING	R/O	Level of the latest system message log expressed as a 1-byte number. ● Fatal fault (1) ● Severe fault (2) ● Software failure (3) ● Warning (4) ● Information (6)	Y
9	ax1250sSystemMsgEventPoint {ax1250sSystemMsg 5}	DisplayString	R/O	String of no more than 8 bytes indicating the fault point reported in the system message. The event points correspond to the *1.1.2 (3) Event location* in the manual *Message Log Reference*.	Y
10	ax1250sSystemMsgEventInterfaceID {ax1250sSystemMsg 6}	DisplayString	R/O	String indicating the interface Identifier in the system message (maximum of 40 characters). Not applicable.	Y
11	ax1250sSystemMsgEventCode {ax1250sSystemMsg 7}	OCTET STRING	R/O	4-byte message ID code of the system message (0x00000000-0xFFFFFFFF). An error code is indicated in 4 bytes.	Y
12	ax1250sSystemMsgAdditionalCode {ax1250sSystemMsg 8}	OCTET STRING	R/O	6-byte ID code of additional information for the system message (0x000000000000-0xFFFFFFFFFFFF). The contents of the codes are not made public because they are for maintenance purposes.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
13	ax1250sSnmpSendReceiveSize {ax1250sSnmpAgent 1}	INTEGER	R/O	Size of the SNMP packets an agent can send and receive (in bytes)	Y
14	ax1250sSnmpReceiveDelay {ax1250sSnmpAgent 2}	INTEGER	R/O	Recommended delaying interval for receiving SNMP packets (in milliseconds)	Y
15	ax1250sSnmpContinuousSend {ax1250sSnmpAgent 3}	INTEGER	R/O	Recommended number of sequential sends of SNMP packets	Y
16	ax1250sSnmpObjectMaxNumber {ax1250sSnmpAgent 4}	INTEGER	R/O	Recommended number of objects in an SNMP packet	Y
17	ax1250sLicenseNumber {ax1250sLicense 1}	INTEGER	R/O	Number of configured license serial numbers	Y
18	ax1250sLicenseTable {ax1250sLicense 2}	NOT-ACCESSIBLE	NA	Table of license information	Y
19	ax1250sLicenseEntry {ax1250sLicenseTable 1}	NOT-ACCESSIBLE	NA	A license information entry INDEX {ax1250sLicenseIndex}	Y
20	ax1250sLicenseIndex {ax1250sLicenseEntry 1}	INTEGER	NA	Unique index number assigned to each serial number. Number in the range 1–ax1250sLicenseNumber.	Y
21	ax1250sLicenseSerialNumber {ax1250sLicenseEntry 2}	DisplayString	R/O	Serial number	Y
22	ax1250sLicenseOptionNumber {ax1250sLicenseEntry 3}	INTEGER	R/O	Number of option licenses related to a serial number	Y
23	ax1250sLicenseOptionTable {ax1250sLicense 3}	NOT-ACCESSIBLE	NA	Table of the option licenses related to a serial number	Y
24	ax1250sLicenseOptionEntry {ax1250sLicenseOptionTable 1}	NOT-ACCESSIBLE	NA	Entry of the option licenses related to a serial number. INDEX {ax1250sLicenseOptionIndex ax1250sLicenseOptionNumberIndex }	Y
25	ax1250sLicenseOptionIndex {ax1250sLicenseOptionEntry 1}	INTEGER	NA	Unique index number assigned to each serial number. Equal to ax1250sLicenseIndex.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
26	ax1250sLicenseOptionNumberIndex {ax1250sLicenseOptionEntry 2}	INTEGER	NA	Index number of the option license related to a serial number. Number in the range 1-ax1250sLicenseOptionNumber.	Y
27	ax1250sLicenseOptionSoftwareName {ax1250sLicenseOptionEntry 3}	DisplayString	R/O	Software model name of the option license related to a serial number	Y
28	ax1250sLicenseOptionSoftwareAbbreviation {ax1250sLicenseOptionEntry 4}	DisplayString	R/O	Abbreviation of the software of the option license related to a serial number	Y

3.14 ax1250sDevice group (system switch chassis information MIB) [AX1250S]

3.14.1 ax1250sChassis group implementation specifications (chassis information)

(1) Identifiers

```
ax1250sDevice  OBJECT IDENTIFIER ::= {ax1250sMib 2}
ax1250sChassis          OBJECT IDENTIFIER ::= {ax1250sDevice 1}

ax1250sChassisMaxNumber OBJECT IDENTIFIER ::= {ax1250sChassis 1}
Object ID value 1.3.6.1.4.1.21839.2.2.14.2.1.1

ax1250sChassisTable     OBJECT IDENTIFIER ::= {ax1250sChassis 2}
Object ID value 1.3.6.1.4.1.21839.2.2.14.2.1.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1250sChassis group (chassis information).

Table 3-35 ax1250sChassis group implementation specifications (chassis information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1250sChassisMaxNumber {ax1250sChassis 1}	INTEGER	R/O	Maximum number of cluster chassis connected to the Switch. ● For AX1250S Switches: Fixed value of 1.	Y
2	ax1250sChassisTable {ax1250sChassis 2}	NOT-ACCESSIBLE	NA	Table of the chassis information	Y
3	ax1250sChassisEntry {ax1250sChassisTable 1}	NOT-ACCESSIBLE	NA	Entry of information on a specific chassis. INDEX {ax1250sChassisIndex}	Y
4	ax1250sChassisIndex {ax1250sChassisEntry 1}	NOT-ACCESSIBLE	NA	Number to identify ax1250sChassisEntry. Fixed value of 1.	Y
5	ax1250sChassisType {ax1250sChassisEntry 2}	INTEGER	R/O	Chassis type: ● AX1250S-24T2C(1400)	Y
6	ax1250sChassisStatus {ax1250sChassisEntry 3}	INTEGER	R/O	Current status of the chassis. Fixed value of in operation (2).	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
7	ax1250sStsLedStatus {ax1250sChassisEntry 4}	INTEGER	R/O	Status of ST1 LED of the switch. ● Stable red (0) ● Blinking red (1) ● Stable orange (2) ● Blinking orange (3) ● Blinking green (4) ● Stable green (5) ● Off (6)	Y
8	ax1250sCpuName {ax1250sChassisEntry 5}	DisplayString	R/O	CPU Name (maximum of 16 characters).	N
9	ax1250sCpuClock {ax1250sChassisEntry 6}	INTEGER	R/O	CPU clock (in MHz).	N
10	ax1250sMemoryTotalSize {ax1250sChassisEntry 7}	INTEGER	R/O	Amount of installed memory (in KB)	Y
11	ax1250sMemoryUsedSize {ax1250sChassisEntry 8}	INTEGER	R/O	Amount of used memory (in KB)	Y
12	ax1250sMemoryFreeSize {ax1250sChassisEntry 9}	INTEGER	R/O	Amount of unused memory (in KB)	Y
13	ax1250sRomVersion {ax1250sChassisEntry 10}	DisplayString	R/O	Version of the installed ROM (string).	N
14	ax1250sCpuLoad1m {ax1250sChassisEntry 11}	INTEGER	R/O	Percentage of CPU usage over a one-minute period (0-100)	Y
15	ax1250sFlashTotalSize {ax1250sChassisEntry 12}	INTEGER	R/O	Sum of the amount of used and unused memory in the file system of the embedded flash memory (in KB)	N
16	ax1250sFlashUsedSize {ax1250sChassisEntry 13}	INTEGER	R/O	Amount of used memory in the file system of the embedded flash memory (in KB)	N
17	ax1250sFlashFreeSize {ax1250sChassisEntry 14}	INTEGER	R/O	Amount of unused memory in the file system of the embedded flash memory (in KB)	N
18	ax1250sSdCardStatus {ax1250sChassisEntry 15}	INTEGER	R/O	Status of the connection with an MC connection: ● Connected (2) ● Not connected (32)	N
19	ax1250sSdCardTotalSize {ax1250sChassisEntry 16}	INTEGER	R/O	Total capacity of the MC (in KB).	N
20	ax1250sSdCardUsedSize {ax1250sChassisEntry 17}	INTEGER	R/O	Used capacity of the MC (in KB).	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
21	ax1250sSdCardFreeSize {ax1250sChassisEntry 18}	INTEGER	R/O	Amount of unused MC capacity (in KB).	N
22	ax1250sPhysLineNumber {ax1250sChassisEntry 19}	INTEGER	R/O	Number of ports available for connection to this chassis	Y
23	ax1250sTemperatureStatusNumber {ax1250sChassisEntry 20}	INTEGER	R/O	Maximum number of temperature monitoring points in this chassis For AX1250S Switches: Fixed value of 1.	Y
24	ax1250sPowerUnitNumber {ax1250sChassisEntry 21}	INTEGER	R/O	Number of power supplies available in this chassis For AX1250S Switches: Fixed value of 1.	Y
25	ax1250sRedundantPsNumber {ax1250sChassisEntry 22}	INTEGER	R/O	Number of external power supplies that can be installed in this chassis. For AX1250S Switches: 0	Y
26	ax1250sFanNumber {ax1250sChassisEntry 23}	INTEGER	R/O	Number of main fans in this chassis ● For AX1250S-24T2C Switches: 0	Y
27	ax1250sTotalAccumRunTime{ax1250sChassisEntry 24}	INTEGER	R/O	Total run time of the switch since startup.	Y
28	ax1250sCriticalAccumRunTime{ax1250sChassisEntry 25}	INTEGER	R/O	Total time this switch ran in an environment exceeding 50°C.	Y

3.14.2 ax1250sChassis group implementation specifications (temperature information)

(1) Identifiers

```
ax1250sChassis          OBJECT IDENTIFIER ::= {ax1250sDevice 1}

ax1250sTemperatureStatusTable OBJECT IDENTIFIER ::= {ax1250sChassis 3}
Object ID value 1.3.6.1.4.1.21839.2.2.14.2.1.3
```

(2) Implementation specifications

The following table shows the implementation specifications (temperature information) for the ax1250sChassis group.

Table 3-36 ax1250sChassis group implementation specifications (temperature information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1250sTemperatureStatus Table {ax1250sChassis 3}	NOT-ACCESSIBLE	NA	Table of the temperature status	Y
2	ax1250sTemperatureStatus Entry {ax1250sTemperatureStatus Table 1}	NOT-ACCESSIBLE	NA	Entry of temperature status. INDEX {ax1250sChassisIndex, ax1250sTemperatureStatusIndex}	Y
3	ax1250sTemperatureStatusIndex {ax1250sTemperatureStatus Entry 1}	NOT-ACCESSIBLE	NA	Unique index assigned to each temperature monitoring point	Y
4	ax1250sTemperatureStatus Descr {ax1250sTemperatureStatus Entry 2}	DisplayString	R/O	Description of this temperature monitoring point. ● Main board Temperature:	Y
5	ax1250sTemperatureStatus Value {ax1250sTemperatureStatus Entry 3}	Integer32	R/O	Current temperature of this monitoring point However, it is 0°C for 60 minutes after the Switch is started.	Y
6	ax1250sTemperatureThreshold {ax1250sTemperatureStatus Entry 4}	Integer32	R/O	Temperature on this monitoring point where the Switch is stopped	Y
7	ax1250sTemperatureState {ax1250sTemperatureStatus Entry 5}	INTEGER	R/O	Current temperature state of this monitoring point: ● Normal (1) ● Caution (2)	Y

3.14.3 ax1250sChassis group implementation specifications (power source information)

(1) Identifiers

```
ax1250sChassis        OBJECT IDENTIFIER ::= {ax1250sDevice 1}

ax1250sPowerUnitTable OBJECT IDENTIFIER ::= {ax1250sChassis 4}
Object ID value 1.3.6.1.4.1.21839.2.2.14.2.1.4
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1250sChassis group.

Table 3-37 ax1250sChassis group implementation specifications (power source information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1250sPowerUnitTable {ax1250sChassis 4}	NOT-ACCESSIBLE	NA	Table of the power supply information	Y
2	ax1250sPowerUnitEntry {ax1250sPowerUnitTable 1}	NOT-ACCESSIBLE	NA	Entry of the power supply information. INDEX {ax1250sChassisIndex, ax1250sPowerUnitIndex}	Y
3	ax1250sPowerUnitIndex {ax1250sPowerUnitEntry 1}	NOT-ACCESSIBLE	NA	Index indicating the position of the power supply. Number in the range 1-ax1250sPowerUnitNumber. ● For AX1250S Switches: 1	Y
4	ax1250sPowerConnectStatus {ax1250sPowerUnitEntry 2}	INTEGER	R/O	Installation status of the power supplies: ● Installed (2) ● Not installed (32) Fixed value of 2	Y
5	ax1250sPowerSupplyStatus {ax1250sPowerUnitEntry 3}	INTEGER	R/O	Power status: ● In operation (2) ● Fault (4) Fixed value of 2	Y

3.14.4 ax1250sPhysLine group implementation specifications ((physical) line information)

(1) Identifiers

```
ax1250sPhysLine      OBJECT IDENTIFIER ::= {ax1250sDevice 2}

ax1250sPhysLineTable OBJECT IDENTIFIER ::= {ax1250sPhysLine 1}
Object ID value 1.3.6.1.4.1.21839.2.2.14.2.2.1
```

(2) Implementation specifications

The following table shows the implementation specifications ((physical) line information) for the ax1250sPhysLine group.

Table 3-38 ax1250sPhysLine group implementation specifications ((physical) line information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1250sPhysLineTable {ax1250sPhysLine 1}	NOT-ACCESSIBLE	NA	Table of physical line information	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
2	ax1250sPhysLineEntry {ax1250sPhysLineTable 1}	NOT-ACCESSIBLE	NA	Information entry on physical lines INDEX {ax1250sChassisIndex, ax1250sPhysLineIndex }	Y
3	ax1250sPhysLineIndex {ax1250sPhysLineEntry 1}	NOT-ACCESSIBLE	NA	Information about the physical line number. Value of from 1 to ax1250sPhysLineNumber. (The value of *port-number* + 1)	Y
4	ax1250sPhysLineConnectorType {ax1250sPhysLineEntry 2}	INTEGER	R/O	Type of interface on the interchangeable transceiver: ● other(1) ● type100BASE-FX(201) ● type1000BASE-LX(301) ● type1000BASE-SX(302) ● type1000BASE-LH(303) ● type1000BASE-BX10-D(304) ● type1000BASE-BX10-U(305) ● type1000BASE-BX40-D(306) ● type1000BASE-BX40-U(307) ● type1000BASE-SX2(308) Returns `other` (1) if either of the following conditions is met: ● The transceiver type is unknown or the transceiver is not interchangeable ● Initializing the status of the physical line	Y
5	ax1250sPhysLineOperStatus {ax1250sPhysLineEntry 3}	INTEGER	R/O	State of the physical line: ● In operation (2) ● stopped with configuration (6) ● In operation (now in line fault) (8) ● Operation stop (InActive) (20)	Y
6	ax1250sPhysLineIfIndexNumber {ax1250sPhysLineEntry 4}	INTEGER	R/O	Number of ifIndex objects in the physical line	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
7	ax1250sPhysLineTransceiverStatus {ax1250sPhysLineEntry 5}	INTEGER	R/O	Type and installation status of the interchangeable transceiver. Displays unless the physical line status is initializing. ● other, or not an interchangeable transceiver (1) ● SFP transceiver installed (20) ● SFP transceiver not installed (21) ● Unsupported SFP transceiver installed (22) ● SFP transceiver implementation status unknown (23)	Y

3.14.5 ax1250sDeviceError group implementation specifications (switch fault information)

(1) Identifiers

```
ax1250sDevice  OBJECT IDENTIFIER ::= {ax1250sMib 2}

ax1250sDeviceError  OBJECT IDENTIFIER ::= {ax1250sDevice 3}
Object ID value 1.3.6.1.4.1.21839.2.2.14.2.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1250sDeviceError group (switch fault information).

Table 3-39 ax1250sDeviceError group implementation specifications (switch fault information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1250sMemoryError {ax1250sDeviceError 1}	Integer32	NA	Details during a memory error: other(0) Parity Error(1)	Y

3.15 ax1250sAuth group (authentication information) [AX1250S]

(1) Identifiers

```
ax1250sAuth       OBJECT IDENTIFIER ::= {ax1250sMib 10}

ax1250sAuthInfo   OBJECT IDENTIFIER ::= {ax1250sAuth 1}
Object ID value 1.3.6.1.4.1.21839.2.2.14.10.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1250sAuth group (authentication information).

Table 3-40 ax1250sAuth group implementation specifications (authentication information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1250sAuthSysName {ax1250sAuthInfo 1}	OCTET STRING	NA	Host name of the Switch (Same as sysName in the system group).	Y
2	ax1250sAuthIfIndex {ax1250sAuthInfo 2}	Integer32	NA	Connection port number of authenticated terminal (Same as the ifIndex of an interfaces group).	Y
3	ax1250sAuthSupplicantMac {ax1250sAuthInfo 3}	MacAddress	NA	MAC address of authenticated terminal	Y
4	ax1250sAuthMessage {ax1250sAuthInfo 4}	DisplayString	NA	Message (a maximum of 280 characters)	Y

3.16 ax1240sSwitch group (system switch model information MIB) [AX1240S]

(1) Identifiers

```
ax1240sMib     OBJECT IDENTIFIER ::= {axsEx 13}

ax1240sSwitch  OBJECT IDENTIFIER ::= {ax1240sMib 1}
Object ID value 1.3.6.1.4.1.21839.2.2.13.1

ax1240sSoftware  OBJECT IDENTIFIER ::= {ax1240sSwitch 2}
Object ID value 1.3.6.1.4.1.21839.2.2.13.1.2

ax1240sSystemMsg OBJECT IDENTIFIER ::= {ax1240sSwitch 3}
Object ID value 1.3.6.1.4.1.21839.2.2.13.1.3

ax1240sSnmpAgent OBJECT IDENTIFIER ::= {ax1240sSwitch 4}
Object ID value 1.3.6.1.4.1.21839.2.2.13.1.4

ax1240sLicense   OBJECT IDENTIFIER ::= {ax1240sSwitch 6}
Object ID value 1.3.6.1.4.1.21839.2.2.13.1.6
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1240sSwitch group.

Table 3-41 ax1240sSwitch group implementation specifications

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sModelType {ax1240sSwitch 1}	INTEGER	R/O	System device model information (numeric value): ● AX1240S-24T2C(1300) ● AX1240S-48T2C(1301) ● AX1240S-24P2C(1302)	Y
2	ax1240sSoftwareName {ax1240sSoftware 1}	DisplayString	R/O	Name of the software in operation. Fixed value of 0 for length	Y
3	ax1240sSoftwareAbbreviation {ax1240sSoftware 2}	DisplayString	R/O	Abbreviation of the software in operation. ● OS-LT2	Y
4	ax1240sSoftwareVersion {ax1240sSoftware 3}	DisplayString	R/O	The version of the software in operation.	Y
5	ax1240sSystemMsgText {ax1240sSystemMsg 1}	DisplayString	R/O	Latest log information in the operational log. The latest entry information in the system message log (maximum of 256 characters). For the format of the logs, see *1.1.1 Format of messages* in the manual *Message Log Reference*.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
6	ax1240sSystemMsgType {ax1240sSystemMsg 2}	OCTET STRING	R/O	Indicates the event type in one byte: ● An event occurred (01). ● An event is recovered (02). Fixed value of (01).	Y
7	ax1240sSystemMsgTimeStamp {ax1240sSystemMsg 3}	DisplayString	R/O	Time an event occurred (month, day, hour, minutes, and seconds), expressed as a 14-byte string in the following format: *MM*/*DD* *hh*:*mm*:*ss* ● *MM*: month (01-12) ● *DD*: day (01-31) ● *hh*: hour (00-23) ● *mm*: minute (00-59) ● *ss*: second (00-59) A 1-byte space is inserted between *DD* and *hh*.	Y
8	ax1240sSystemMsgLevel {ax1240sSystemMsg 4}	OCTET STRING	R/O	Level of the latest system message log expressed as a 1-byte number. ● Fatal fault (1) ● Severe fault (2) ● Software failure (3) ● Warning (4) ● Information (6)	Y
9	ax1240sSystemMsgEventPoint {ax1240sSystemMsg 5}	DisplayString	R/O	String of no more than 8 bytes indicating the fault point reported in the system message. For details about the event locations, see *1.1.2 (3) Event location* in the manual *Message Log Reference*.	Y
10	ax1240sSystemMsgEventInterfaceID {ax1240sSystemMsg 6}	DisplayString	R/O	String indicating the interface Identifier in the system message (maximum of 40 characters). Not applicable.	Y
11	ax1240sSystemMsgEventCode {ax1240sSystemMsg 7}	OCTET STRING	R/O	4-byte message ID code of the system message (0x00000000-0xFFFFFFFF). An error code is indicated in 4 bytes.	Y
12	ax1240sSystemMsgAdditionalCode {ax1240sSystemMsg 8}	OCTET STRING	R/O	6-byte ID code of additional information for the system message (0x000000000000-0xFFFFFFFFFFFF). The contents of the codes are not made public because they are for maintenance purposes.	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
13	ax1240sSnmpSendReceiveSize {ax1240sSnmpAgent 1}	INTEGER	R/O	Size of the SNMP packets an agent can send and receive (in bytes)	Y
14	ax1240sSnmpReceiveDelay {ax1240sSnmpAgent 2}	INTEGER	R/O	Recommended delaying interval for receiving SNMP packets (in milliseconds)	Y
15	ax1240sSnmpContinuousSend {ax1240sSnmpAgent 3}	INTEGER	R/O	Recommended number of sequential sends of SNMP packets	Y
16	ax1240sSnmpObjectMaxNumber {ax1240sSnmpAgent 4}	INTEGER	R/O	Recommended number of objects in an SNMP packet	Y
17	ax1240sLicenseNumber {ax1240sLicense 1}	INTEGER	R/O	Number of configured license serial numbers	Y
18	ax1240sLicenseTable {ax1240sLicense 2}	NOT-ACCESSIBLE	NA	Table of license information	Y
19	ax1240sLicenseEntry {ax1240sLicenseTable 1}	NOT-ACCESSIBLE	NA	A license information entry INDEX {ax1240sLicenseIndex}	Y
20	ax1240sLicenseIndex {ax1240sLicenseEntry 1}	INTEGER	NA	Unique index number assigned to each serial number. Number in the range 1-ax1240sLicenseNumber.	Y
21	ax1240sLicenseSerialNumber {ax1240sLicenseEntry 2}	DisplayString	R/O	Serial number	Y
22	ax1240sLicenseOptionNumber {ax1240sLicenseEntry 3}	INTEGER	R/O	Number of option licenses related to a serial number	Y
23	ax1240sLicenseOptionTable {ax1240sLicense 3}	NOT-ACCESSIBLE	NA	Table of the option licenses related to a serial number	Y
24	ax1240sLicenseOptionEntry {ax1240sLicenseOptionTable 1}	NOT-ACCESSIBLE	NA	Entry of the option licenses related to a serial number. INDEX {ax1240sLicenseOptionIndex ax1240sLicenseOptionNumberIndex }	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
25	ax1240sLicenseOptionIndex {ax1240sLicenseOptionEntry 1}	INTEGER	NA	Unique index number assigned to each serial number. Equal to ax1240sLicenseIndex.	Y
26	ax1240sLicenseOptionNumberIndex {ax1240sLicenseOptionEntry 2}	INTEGER	NA	Index number of the option license related to a serial number. Number in the range 1-ax1240sLicenseOptionNumber.	Y
27	ax1240sLicenseOptionSoftwareName {ax1240sLicenseOptionEntry 3}	DisplayString	R/O	Software model name of the option license related to a serial number	Y
28	ax1240sLicenseOptionSoftwareAbbreviation {ax1240sLicenseOptionEntry 4}	DisplayString	R/O	Abbreviation of the software of the option license related to a serial number	Y

3.17 ax1240sDevice group (system switch chassis information MIB) [AX1240S]

3.17.1 ax1240sChassis group implementation specifications (chassis information)

(1) Identifiers

```
ax1240sDevice  OBJECT IDENTIFIER ::= {ax1240sMib 2}
ax1240sChassis          OBJECT IDENTIFIER ::= {ax1240sDevice 1}

ax1240sChassisMaxNumber OBJECT IDENTIFIER ::= {ax1240sChassis 1}
Object ID value 1.3.6.1.4.1.21839.2.2.13.2.1.1

ax1240sChassisTable     OBJECT IDENTIFIER ::= {ax1240sChassis 2}
Object ID value 1.3.6.1.4.1.21839.2.2.13.2.1.2
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1240sChassis group (chassis information).

Table 3-42 ax1240sChassis group implementation specifications (chassis information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sChassisMaxNumber {ax1240sChassis 1}	INTEGER	R/O	Maximum number of cluster chassis connected to the Switch. ● For AX1240S: Fixed value of 1.	Y
2	ax1240sChassisTable {ax1240sChassis 2}	NOT-ACCESSIBLE	NA	Table of the chassis information	Y
3	ax1240sChassisEntry {ax1240sChassisTable 1}	NOT-ACCESSIBLE	NA	Entry of information on a specific chassis. INDEX {ax1240sChassisIndex}	Y
4	ax1240sChassisIndex {ax1240sChassisEntry 1}	NOT-ACCESSIBLE	NA	Index to identify ax1240sChassisEntry. Fixed value of 1.	Y
5	ax1240sChassisType {ax1240sChassisEntry 2}	INTEGER	R/O	Chassis type: ● AX1240S-24T2C(1300) ● AX1240S-48T2C(1301) ● AX1240S-24P2C(1302)	Y
6	ax1240sChassisStatus {ax1240sChassisEntry 3}	INTEGER	R/O	Current status of the chassis. Fixed value of in operation (2).	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
7	ax1240sStsLedStatus {ax1240sChassisEntry 4}	INTEGER	R/O	Status of ST1 LED of the switch. ● Stable red (0) ● Blinking red (1) ● Stable orange (2) ● Blinking orange (3) ● Blinking green (4) ● Stable green (5) ● Off (6)	Y
8	ax1240sCpuName {ax1240sChassisEntry 5}	DisplayString	R/O	CPU Name (maximum of 16 characters).	N
9	ax1240sCpuClock {ax1240sChassisEntry 6}	INTEGER	R/O	CPU clock (in MHz).	N
10	ax1240sMemoryTotalSize {ax1240sChassisEntry 7}	INTEGER	R/O	Amount of installed memory (in KB)	Y
11	ax1240sMemoryUsedSize {ax1240sChassisEntry 8}	INTEGER	R/O	Amount of used memory (in KB)	Y
12	ax1240sMemoryFreeSize {ax1240sChassisEntry 9}	INTEGER	R/O	Amount of unused memory (in KB)	Y
13	ax1240sRomVersion {ax1240sChassisEntry 10}	DisplayString	R/O	Version of the installed ROM (string).	N
14	ax1240sCpuLoad1m {ax1240sChassisEntry 11}	INTEGER	R/O	Percentage of CPU usage over a one-minute period (0-100)	Y
15	ax1240sFlashTotalSize {ax1240sChassisEntry 12}	INTEGER	R/O	Sum of the amount of used and unused memory in the file system of the embedded flash memory (in KB)	N
16	ax1240sFlashUsedSize {ax1240sChassisEntry 13}	INTEGER	R/O	Amount of used memory in the file system of the embedded flash memory (in KB)	N
17	ax1240sFlashFreeSize {ax1240sChassisEntry 14}	INTEGER	R/O	Amount of unused memory in the file system of the embedded flash memory (in KB)	N
18	ax1240sSdCardStatus {ax1240sChassisEntry 15}	INTEGER	R/O	Status of the connection with an MC connection: ● Connected (2) ● Not connected (32)	N
19	ax1240sSdCardTotalSize {ax1240sChassisEntry 16}	INTEGER	R/O	Total capacity of the MC (in KB).	N

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
20	ax1240sSdCardUsedSize {ax1240sChassisEntry 17}	INTEGER	R/O	Used capacity of the MC (in KB).	N
21	ax1240sSdCardFreeSize {ax1240sChassisEntry 18}	INTEGER	R/O	Amount of unused MC capacity (in KB).	N
22	ax1240sPhysLineNumber {ax1240sChassisEntry 19}	INTEGER	R/O	Number of ports available for connection to this chassis	Y
23	ax1240sTemperatureStatusNumber {ax1240sChassisEntry 20}	INTEGER	R/O	Maximum number of temperature monitoring points in this chassis For AX1240S: Fixed value of 1.	Y
24	ax1240sPowerUnitNumber {ax1240sChassisEntry 21}	INTEGER	R/O	Number of power supplies available in this chassis For AX1240S: Fixed value of 1.	Y
25	ax1240sRedundantPsNumber {ax1240sChassisEntry 22}	INTEGER	R/O	Number of external power supplies that can be installed in this chassis. For AX1240S: 0	Y
26	ax1240sFanNumber {ax1240sChassisEntry 23}	INTEGER	R/O	Number of main fans in this chassis ● For AX1240S-24T2C: 0 ● For AX1240S-48T2C: 2 ● For AX1240S-24P2C: 2	Y
27	ax1240sTotalAccumRunTime{ax1240sChassisEntry 24}	INTEGER	R/O	Total run time of the switch since startup.	Y
28	ax1240sCriticalAccumRunTime{ax1240sChassisEntry 25}	INTEGER	R/O	Total time this switch ran in an environment exceeding 40°C.	Y

3.17.2 ax1240sChassis group implementation specifications (temperature information)

(1) Identifiers

```
ax1240sChassis          OBJECT IDENTIFIER ::= {ax1240sDevice 1}

ax1240sTemperatureStatusTable OBJECT IDENTIFIER ::= {ax1240sChassis 3}
Object ID value 1.3.6.1.4.1.21839.2.2.13.2.1.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1240sChassis group implementation specifications (temperature information).

Table 3-43 ax1240sChassis group implementation specifications (temperature information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sTemperatureStatus Table {ax1240sChassis 3}	NOT-ACCESSIBLE	NA	Table of the temperature status	Y
2	ax1240sTemperatureStatus Entry {ax1240sTemperatureStatus Table 1}	NOT-ACCESSIBLE	NA	Entry of temperature status. INDEX {ax1240sChassisIndex, ax1240sTemperatureStatusIndex}	Y
3	ax1240sTemperatureStatusIndex {ax1240sTemperatureStatus Entry 1}	NOT-ACCESSIBLE	NA	Unique index assigned to each temperature monitoring point	Y
4	ax1240sTemperatureStatus Descr {ax1240sTemperatureStatus Entry 2}	DisplayString	R/O	Description of this temperature monitoring point. ● Main board Temperature:	Y
5	ax1240sTemperatureStatus Value {ax1240sTemperatureStatus Entry 3}	Integer32	R/O	Current temperature of this monitoring point However, it is 0°C for 60 minutes after the Switch is started.	Y
6	ax1240sTemperatureThreshold {ax1240sTemperatureStatus Entry 4}	Integer32	R/O	Temperature on this monitoring point where the Switch is stopped	Y
7	ax1240sTemperatureState {ax1240sTemperatureStatus Entry 5}	INTEGER	R/O	Current temperature state of this monitoring point: ● Normal (1) ● Caution (2)	Y

3.17.3 ax1240sChassis group implementation specifications (power supply information)

(1) Identifiers

```
ax1240sChassis        OBJECT IDENTIFIER ::= {ax1240sDevice 1}

ax1240sPowerUnitTable OBJECT IDENTIFIER ::= {ax1240sChassis 4}
Object ID value 1.3.6.1.4.1.21839.2.2.13.2.1.4
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1240sChassis group (power supply information).

Table 3-44 ax1240sChassis group implementation specifications (power supply information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sPowerUnitTable {ax1240sChassis 4}	NOT-ACCESSIBLE	NA	Table of the power supply information	Y
2	ax1240sPowerUnitEntry {ax1240sPowerUnitTable 1}	NOT-ACCESSIBLE	NA	Entry of the power supply information. INDEX {ax1240sChassisIndex, ax1240sPowerUnitIndex}	Y
3	ax1240sPowerUnitIndex {ax1240sPowerUnitEntry 1}	NOT-ACCESSIBLE	NA	Index indicating the position of the power supply. Number in the range 1-ax1240sPowerUnitNumber. ● For AX1240S: 1	Y
4	ax1240sPowerConnectStatus {ax1240sPowerUnitEntry 2}	INTEGER	R/O	Installation status of the power supplies: ● Installed (2) ● Not installed (32) Fixed value of 2	Y
5	ax1240sPowerSupplyStatus {ax1240sPowerUnitEntry 3}	INTEGER	R/O	Power status: ● In operation (2) ● Fault (4) Fixed value of 2	Y

3.17.4 ax1240sChassis group implementation specifications (fan information)

(1) Identifiers

```
ax1240sChassis   OBJECT IDENTIFIER ::= {ax1240sDevice 1}

ax1240sFanTable  OBJECT IDENTIFIER ::= {ax1240sChassis 5}
Object ID value 1.3.6.1.4.1.21839.2.2.13.2.1.5
```

(2) Implementation specifications

The following table shows the implementation specifications (fan information) for the ax1240sChassis group.

Table 3-45 ax1240sChassis group implementation specifications (fan information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sFanTable {ax1240sChassis 5}	NOT-ACCESSIBLE	NA	Table of the fan information	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
2	ax1240sFanEntry {ax1240sFanTable 1}	NOT-ACCESSIBLE	NA	Entry of the fan information. INDEX {ax1240sChassisIndex, ax1240sFanIndex}	Y
3	ax1240sFanIndex {ax1240sFanEntry 1}	NOT-ACCESSIBLE	NA	Index that indicates the position of the main fan. Number in the range 1-ax1240sFanNumber. ● For AX1240S-24T2C: none ● For 1240S-48T2C: 1-2 ● For AX1240S-24P2C: 1-2	Y
4	ax1240sFanStatus {ax1240sFanEntry 2}	INTEGER	R/O	Status of the main fan. ● In operation (2) ● Fault (4) ● Operation stop (5)	Y

3.17.5 ax1240sPhysLine group implementation specifications (physical) line information)

(1) Identifiers

```
ax1240sPhysLine      OBJECT IDENTIFIER ::= {ax1240sDevice 2}

ax1240sPhysLineTable OBJECT IDENTIFIER ::= {ax1240sPhysLine 1}
Object ID value 1.3.6.1.4.1.21839.2.2.13.2.2.1
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1240sPhysLinegroup ((physical) line information).

Table 3-46 ax1240sPhysLine group implementation specifications (physical) line information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sPhysLineTable {ax1240sPhysLine 1}	NOT-ACCESSIBLE	NA	Table of physical line information	Y
2	ax1240sPhysLineEntry {ax1240sPhysLineTable 1}	NOT-ACCESSIBLE	NA	Information entry on physical lines INDEX {ax1240sChassisIndex, ax1240sPhysLineIndex }	Y
3	ax1240sPhysLineIndex {ax1240sPhysLineEntry 1}	NOT-ACCESSIBLE	NA	Information about the physical line number. Number in the range	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
				1-ax1240sPhysLineNumber. (The value of *port-number* + 1)	
4	ax1240sPhysLineConnectorType {ax1240sPhysLineEntry 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-U(307) ● type1000BASE-SX2(308) Returns `other` (1) if either of the following conditions is met: ● The transceiver type is unknown or the transceiver is not interchangeable ● Initializing the status of the physical line	Y
5	ax1240sPhysLineOperStatus {ax1240sPhysLineEntry 3}	INTEGER	R/O	State of the physical line: ● In operation (2) ● stopped with configuration (6) ● In operation (now in line fault) (8) ● Operation stop (InActive) (20)	Y
6	ax1240sPhysLineIfIndexNumber {ax1240sPhysLineEntry 4}	INTEGER	R/O	Number of ifIndex objects in the physical line	Y
7	ax1240sPhysLineTransceiverStatus {ax1240sPhysLineEntry 5}	INTEGER	R/O	Type and installation status of the interchangeable transceiver. Displays unless the physical line status is initializing. ● other, or not an interchangeable transceiver (1) ● SFP transceiver	Y

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
				installed (20) ● SFP transceiver not installed (21) ● Unsupported SFP transceiver installed (22) ● SFP transceiver implementation status unknown (23)	

3.17.6 ax1240sDeviceError group implementation specifications (switch fault information)

(1) Identifiers

```
ax1240sDevice  OBJECT IDENTIFIER ::= {ax1240sMib 2}

ax1240sDeviceError  OBJECT IDENTIFIER ::= {ax1240sDevice 3}
Object ID value 1.3.6.1.4.1.21839.2.2.13.2.3
```

(2) Implementation specifications

The following table shows the implementation specifications for the ax1240sDeviceError group (switch fault information).

Table 3-47 ax1240sDeviceError group implementation specifications (switch fault information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sMemoryError {ax1240sDeviceError 1}	Integer32	NA	Details during a memory error: other(0) Parity Error(1)	Y

3.18 ax1240sAuth group (authentication information) [AX1240S]

(1) Identifiers

```
ax1240sAuth       OBJECT IDENTIFIER ::= {ax1240sMib 10}

ax1240sAuthInfo   OBJECT IDENTIFIER ::= {ax1240sAuth 1}
Object ID value 1.3.6.1.4.1.21839.2.2.13.10.1
```

(2) Implementation specifications

The following table shows the implementation specifications (authentication information) for the ax1240sAuthgroup.

Table 3-48 ax1240sAuth group implementation specifications (authentication information)

No.	Object identifier	SYNTAX	Access	Implementation specifications	Implemented Y/N
1	ax1240sAuthSysName {ax1240sAuthInfo 1}	OCTET STRING	NA	Host name of the Switch (Same as sysName in the system group).	Y
2	ax1240sAuthIfIndex {ax1240sAuthInfo 2}	Integer32	NA	Connection port number of authenticated terminal (Same as the ifIndex of an interfaces group).	Y
3	ax1240sAuthSupplicantMac {ax1240sAuthInfo 3}	MacAddress	NA	MAC address of authenticated terminal	Y
4	ax1240sAuthMessage {ax1240sAuthInfo 4}	DisplayString	NA	Message (a maximum of 280 characters)	Y

4. Supported MIB Traps

This chapter describes the supported MIB traps.

4.1 Supported traps and timing of issuance

The table below lists the supported traps and the timing at which they are issued.

Table 4-1 Supported traps and timing of issuance

No.	Trap type	Meaning	Issued when	Implemented Y/N
1	coldStart	An object in a system re-initialization might have been changed.	A cold start trap is issued when any of the following occurs:# 1. When a switch starts 2. When an agent is re-initialized due to a change in the configuration (when an interface or protocol is changed) 3. When the time is changed by using the `set clock` command	Y
2	warmStart	The object in a system re-initialization is not changed.	When the configuration of SNMP is changed	Y
3	linkDown	Line failure detection	This trap is issued when the operating state of an interface is changed from ACTIVE (communication enabled) to DISABLE (communication disabled).	Y
4	linkUp	Line failure recovery	This trap is issued when the operating state of an interface is changed from DISABLE (communication disabled) to ACTIVE (communication enabled).	Y
5	authenticationFailure	Confirmation error	This trap is issued when an SNMP packet is received from an illegal community (when an authentication error occurs).	Y
6	risingAlarm	A value exceeded an upper threshold.	This trap is issued when a value exceeds the upper threshold of an RMON alarm.	Y
7	fallingAlarm	A value fell below a lower threshold.	This trap is issued when a value falls below the lower threshold of an RMON alarm.	Y
8	ax2230sSystemMsgTrap [AX2200S] ax1250sSystemMsgTrap [AX1250S] ax1240sSystemMsgTrap［AX1240S］	System message output	This trap is issued when a system message is output.	N
9	ax2230sTemperatureTrap［AX2200S］ ax1250sTemperatureTrap［AX1250S］ ax1240sTemperatureTrap［AX1240S］	Transition of temperature state	This trap is issued when the temperature that the switch monitors changes to a normal, warning, or abnormal state.	Y

No.	Trap type	Meaning	Issued when	Implemented Y/N
10	ax1250sAirFanStopTrap［AX1250S］	A fan is out of order.	This trap is issued when a problem with a fan is detected.	N
	ax2230sAirFanStopTrap［AX2200S］ ax1240sAirFanStopTrap［AX1240S］	A fan is out of order.	This trap is issued when a problem with a fan is detected.	Y
11	ax2230sPowerSupplyFailureTrap［AX2200S］ ax1250sPowerSupplyFailureTrap［AX1250S］ ax1240sPowerSupplyFailureTrap［AX1240S］	Power is out of order.	● When an abnormality occurs in any of the installed power supplies ● When a switch loses power.	N
12	ax2230sLoginSuccessTrap［AX2200S］ ax1250sLoginSuccessTrap［AX1250S］ ax1240sLoginSuccessTrap［AX1240S］	A device user log-in succeeded.	This trap is issued when a user succeeds in logging in by using the console, telnet, or FTP.	Y
13	ax2230sLoginFailureTrap［AX2200S］ ax1250sLoginFailureTrap［AX1250S］ ax1240sLoginFailureTrap［AX1240S］	A device user log-in failed.	● This trap is sent every time user authentication fails during a login operation by using the console, telnet, or FTP. ● This trap is not sent when a connection is lost due to a remote access restriction, a timeout occurs at the `Login:` or `Password:` prompt, or a forced disconnection occurs.(In addition, this trap is not sent when only the Enter key is pressed at the Login:prompt.)	Y
14	ax2230sLogoutTrap［AX2200S］ ax1250sLogoutTrap［AX1250S］ ax1240sLogoutTrap［AX1240S］	A device user logged out.	This trap is issued when a user succeeds in logging out using the console, telnet, or FTP.	Y
15	ax2230sMemoryUsageTrap［AX2200S］ ax1250sMemoryUsageTrap［AX1250S］ ax1240sMemoryUsageTrap［AX1240S］	Usable memory reduced.	This trap is issued when usable memory falls below a lower threshold.	N

No.	Trap type	Meaning	Issued when	Implemented Y/N
16	axsOadpNeighborCachelastChangeTrap	Information on an OADP adjacent node was updated.	This trap is issued when information on an OADP adjacent node is updated.	N
17	ax2230sFrameErrorReceiveTrap [AX2200S] ax1250sFrameErrorReceiveTrap [AX1250S] ax1240sFrameErrorReceiveTrap [AX1240S]	A frame reception error occurred.	This trap is issued when a frame reception error occurs.	N
18	ax2230sFrameErrorSendTrap [AX2200S] ax1250sFrameErrorSendTrap [AX1250S] ax1240sFrameErrorSendTrap [AX1240S]	A frame transmission error occurred.	This trap is issued when a frame transmission error occurs.	N
19	ax2230sBroadcastStormDetectTrap [AX2200S] ax1250sBroadcastStormDetectTrap [AX1250S] ax1240sBroadcastStormDetectTrap [AX1240S]	Storm detection	This trap is issued when a broadcast storm is detected.(A port is not inactivated.) The settings for detection of this error can be configured using the `storm-control` configuration command.	Y
20	ax2230sMulticastStormDetectTrap [AX2200S] ax1250sMulticastStormDetectTrap [AX1250S] ax1240sMulticastStormDetectTrap [AX1240S]	Storm detection	This trap is issued when a multicast storm is detected.(A port is not inactivated.) The settings for detection of this error can be configured using the `storm-control` configuration command.	Y
21	ax2230sUnicastStormDetectTrap [AX2200S] ax1250sUnicastStormDetectTrap [AX1250S] ax1240sUnicastStormDetectTrap [AX1240S]	Storm detection	This trap is issued when a unicast storm is detected. (A port is not inactivated.) The settings for detection of this error can be configured using the `storm-control` configuration command.	Y

No.	Trap type	Meaning	Issued when	Implemented Y/N
22	ax2230sBroadcastStormPortInactivateTrap [AX2200S] ax1250sBroadcastStormPortInactivateTrap [AX1250S] ax1240sBroadcastStormPortInactivateTrap [AX1240S]	A port is inactivated by storm detection.	This trap is issued when a broadcast storm is detected and a port is inactivated. The settings for detection of this error can be configured using the `storm-control` configuration command.	Y
23	ax2230sMulticastStormPortInactivateTrap [AX2200S] ax1250sMulticastStormPortInactivateTrap [AX1250S] ax1240sMulticastStormPortInactivateTrap [AX1240S]	A port is inactivated by storm detection.	This trap is issued when a multicast storm is detected and a port is inactivated. The settings for detection of this error can be configured using the `storm-control` configuration command.	Y
24	ax2230sUnicastStormPortInactivateTrap [AX2200S] ax1250sUnicastStormPortInactivateTrap [AX1250S] ax1240sUnicastStormPortInactivateTrap [AX1240S]	A port is inactivated by storm detection.	This trap is issued when a unicast storm is detected and when a port is inactivated. The settings for detection of this error can be configured using the `storm-control` configuration command.	Y
25	ax2230sBroadcastStormRecoverTrap [AX2200S] ax1250sBroadcastStormRecoverTrap [AX1250S] ax1240sBroadcastStormRecoverTrap [AX1240S]	Storm termination	This trap is issued when the termination of a broadcast storm is detected. The settings for detection of this error can be configured using the `storm-control` configuration command.	Y
26	ax2230sMulticastStormRecoverTrap [AX2200S] ax1250sMulticastStormRecoverTrap [AX1250S] ax1240sMulticastStormRecoverTrap [AX1240S]	Storm termination	This trap is issued when the termination of a multicast storm is detected. The settings for detection of this error can be configured using the `storm-control` configuration command.	Y

No.	Trap type	Meaning	Issued when	Implemented Y/N
27	ax2230sUnicastStormRecoverTrap [AX2200S] ax1250sUnicastStormRecoverTrap [AX1250S] ax1240sUnicastStormRecoverTrap [AX1240S]	Storm termination	This trap is issued when the termination of a unicast storm is detected. The settings for detection of this error can be configured using the `storm-control` configuration command.	Y
28	ax2230sEfmoamUddlPortInactivateTrap [AX2200S] ax1250sEfmoamUddlPortInactivateTrap [AX1250S] ax1240sEfmoamUddlPortInactivateTrap [AX1240S]	A port is inactivated by detection of a one-way link failure.	This trap is issued when a one-way link failure is detected and a port is inactivated. The settings for detection of this error can be configured using the `efmoam active` configuration command.	Y
29	ax2230sEfmoamLoopDetectPortInactivateTrap［AX2200S] ax1250sEfmoamLoopDetectPortInactivateTrap [AX1250S] ax1240sEfmoamLoopDetectPortInactivateTrap [AX1240S]	A port is inactivated by loop detection.	This trap is issued when the loop state is detected and a port is inactivated. The settings for detection of this error can be configured using the `efmoam active` configuration command.	N
30	pethPsePortOnOffNotification [AX1250S]	PD feed state	This trap is issued when the PD feed state changes.	N
	pethPsePortOnOffNotification [AX2200S] [AX1240S]	PD feed state	This trap is issued when the PD feed state changes.	Y
31	pethMainPowerUsageOnNotification [AX1250S]	Power threshold-over notification	This trap is issued when the total power consumption of a switch exceeds a threshold value.	N
	pethMainPowerUsageOnNotification［AX2200S] [AX1240S]	Power threshold-over notification	This trap is issued when the total power consumption of a switch exceeds a threshold value.	Y
32	pethMainPowerUsageOffNotification［AX1250S]	Power threshold-under notification	This trap is issued when the total power consumption of a switch falls below a threshold value.	N
	pethMainPowerUsageOffNotification［AX2200S] [AX1240S]	Power threshold-under notification	This trap is issued when the total power consumption of a switch falls below a threshold value.	Y

No.	Trap type	Meaning	Issued when	Implemented Y/N
33	ax2230sDot1xFailureTrap [AX2200S] ax1250sDot1xFailureTrap [AX1250S] ax1240sDot1xFailureTrap [AX1240S]	IEEE 802.1X authentication failure	This trap is issued when IEEE 802.1X authentication fails.	Y
34	ax2230sDot1xEventTrap [AX2200S] ax1250sDot1xEventTrap [AX1250S] ax1240sDot1xEventTrap [AX1240S]	Other than IEEE 802.1X authentication failure	This trap is issued when all login and logout operations except IEEE 802.1X authentication failure are performed.	Y
35	ax2230sWauthFailureTrap [AX2200S] ax1250sWauthFailureTrap [AX1250S] ax1240sWauthFailureTrap [AX1240S]	Web authentication failure	This trap is issued when Web authentication fails.	Y
36	ax2230sWauthEventTrap［AX2200S] ax1250sWauthEventTrap [AX1250S] ax1240sWauthEventTrap [AX1240S]	Other than Web authentication failure	This trap is issued when all login and logout operations except Web authentication failure are performed.	Y
37	ax2230sMauthFailureTrap [AX2200S] ax1250sMauthFailureTrap [AX1250S] ax1240sMauthFailureTrap [AX1240S]	MAC-based authentication failure	This trap is issued when MAC-based authentication fails.	Y
38	ax2230sMauthEventTrap [AX2200S] ax1250sMauthEventTrap [AX1250S] ax1240sMauthEventTrap [AX1240S]	Other than MAC-based authentication failure	This trap is issued when all login and logout operations except MAC-based authentication failure are performed.	Y
39	ax2230sDot1xSystemTrap［AX2200S] ax1250sDot1xSystemTrap［AX1250S] ax1240sDot1xSystemTrap [AX1240S]	Specific system notification duringIEEE 802.1X authentication	A specific system account log notification occurs during IEEE 802.1X authentication.	Y
40	ax2230sWauthSystemTrap [AX2200S] ax1250sWauthSystemTrap [AX1250S] ax1240sWauthSystemTrap [AX1240S]	Specific system notification duringWeb authentication	A specific system account log notification occurs during Web authentication.	Y

No.	Trap type	Meaning	Issued when	Implemented Y/N
41	ax2230sMauthSystemTrap［AX2200S］ ax1250sMauthSystemTrap [AX1250S] ax1240sMauthSystemTrap [AX1240S]	Specific system notification during MAC-based authentication	A specific system account log notification occurs during MAC-based authentication.	Y
42	ax2230sL2ldLinkDown [AX2200S] ax1250sL2ldLinkDown［AX1250S] ax1240sL2ldLinkDown [AX1240S]	Transition of a line to the communication disable state by L2 loop detection	This trap is issued when the operating state of an interface is changed from `active` (communication enabled) to `disable` (communication disabled) by L2 loop detection.	Y
43	ax2230sL2ldLinkUp [AX2200S] ax1250sL2ldLinkUp [AX1250S] ax1240sL2ldLinkUp [AX1240S]	Transition of a line to the communication enable state by the automatic recovery function of L2 loop detection	This trap is issued when the operating state of an interface is changed from `disable` (communication disabled) to `active` (communication enabled) by the automatic recovery functionality of L2 loop detection.	Y
44	ax2230sL2ldLoopDetection [AX2200S] ax1250sL2ldLoopDetection [AX1250S] ax1240sL2ldLoopDetection [AX1240S]	L2 loop detection	This trap is issued when an L2 loop is detected. This trap is issued every 60 seconds while the L2 loop exists.	Y
45	ax2230sUlrChangeSecondary [AX2200S] ax1250sUlrChangeSecondary [AX1250S] ax1240sUlrChangeSecondary [AX1240S]	A secondary port is changed to an active port due to uplink redundancy	This trap is issued when a secondary port becomes an active port due to uplink redundancy.	Y
46	ax2230sUlrChangePrimary［AX2200S] ax1250sUlrChangePrimary［AX1250S] ax1240sUlrChangePrimary [AX1240S]	A primary port is changed to an active port due to uplink redundancy	This trap is issued when a primary port becomes an active port due to uplink redundancy.	Y
47	dot1agCfmFaultAlarm	A CFM fault is detected.	This trap is issued when a CFM fault is detected.	Y
48	ax2230sDeviceErrorTrap［AX2200S] ax1250sDeviceErrorTrap [AX1250S] ax1240sDeviceErrorTrap [AX1240S]	A switch fault is detected.	This trap is issued when a switch fault is detected.	Y

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cold Start trap is sent in five minutes after the Switch is started.
If timing for another trap exists before sending cold Start trap, the trap is discarded.

Legend

Y:Indicates a trap that is supported in (responds to) the Switch.

N:Indicates a trap that is not supported in (does not respond to) the Switch.

--: Not applicable.

4.2 Supported Trap-PDU parameters [AX2200S]

The supported parameters of the Trap-PDU are shown in *Table 4-2 List of supported parameters of the Trap-PDU (for SNMPv1)* and *Table 4-3 List of supported parameters of the Trap-PDU (for SNMPv2C/SNMPv3)* for SNMPv2C/SNMPv3.

Table 4-2 List of supported parameters of the Trap-PDU (for SNMPv1)

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
1	coldStart	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	0	0	sysUpTime value	None
2	warmStart	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	1	0	sysUpTime value	None
3	linkDown	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	2	0	sysUpTime value	ifIndex However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
4	linkUp	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	3	0	sysUpTime value	ifIndex However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
5	authentication Failure	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	4	0	sysUpTime value	None
6	risingAlarm	Object ID of rmon 1.3.6.1.2.1.16	Specific IP address#	6	1	sysUpTime value	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmRisingThreshold
7	fallingAlarm	Object ID of rmon 1.3.6.1.2.1.16	Specific IP address#	6	2	sysUpTime value	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmFallingThreshold
8	ax2230sTemperatureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	4	sysUpTime value	ax2230sChassisIndex ax2230sTemperatureStatusIndex ax2230sTemperatureStatusDescr ax2230sTemperatureStatusValue ax2230sTemperatureState
9	ax2230sAirFanStopTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	8	sysUpTime value	None
10	ax2230sLoginSuccessTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	10	sysUpTime value	axsLoginName, axsLoginTime, axsLoginLocation, axsLoginLine
11	ax2230sLoginFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	11	sysUpTime value	axsLoginName, axsLoginFailureTime, axsLoginLocation, axsLoginLine
12	ax2230sLogoutTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	12	sysUpTime value	axsLoginName, axsLoginTime, axsLogoutTime, axsLoginLocation, axsLoginLine,

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
							axsLogoutStatus
13	ax2230sBroadcastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	20	sysUpTime value	ifIndex
14	ax2230sMulticastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	21	sysUpTime value	ifIndex
15	ax2230sUnicastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	22	sysUpTime value	ifIndex
16	ax2230sBroadcastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	23	sysUpTime value	ifIndex
17	ax2230sMulticastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	24	sysUpTime value	ifIndex
18	ax2230sUnicastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	25	sysUpTime value	ifIndex
19	ax2230sBroadcastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	26	sysUpTime value	ifIndex
20	ax2230sMulticastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	27	sysUpTime value	ifIndex
21	ax2230sUnicastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	28	sysUpTime value	ifIndex

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
22	ax2230sEfmoamUdldPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	29	sysUpTime value	ifIndex
23	pethPsePortOnOffNotification	Object ID of powerEthernet MIB 1.3.6.1.2.1.105	Specific IP address[#]	6	1	sysUpTime value	pethPsePortDetectionStatus
24	pethMainPowerUsageOnNotification	Object ID of powerEthernet MIB 1.3.6.1.2.1.105	Specific IP address[#]	6	2	sysUpTime value	pethMainPseConsumptionPower
25	pethMainPowerUsageOffNotification	Object ID of powerEthernet MIB 1.3.6.1.2.1.105	Specific IP address[#]	6	3	sysUpTime value	pethMainPseConsumptionPower
26	ax2230sDot1xFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	31	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
27	ax2230sDot1xEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	32	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
28	ax2230sWauthFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	33	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
29	ax2230sWauthEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	34	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
30	ax2230sMauthFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	35	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
31	ax2230sMauthEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	36	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
32	ax2230sDot1xSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	37	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
33	ax2230sWauthSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	38	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
34	ax2230sMauthSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address[#]	6	39	sysUpTime value	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
35	ax2230sL2ldLinkDown	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	51	sysUpTime value	axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortDestinationPortIfindex axsL2ldPortSourceVlan
36	ax2230sL2ldLinkUp	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	52	sysUpTime value	axsL2ldPortIfIndex
37	ax2230sL2ldLoopDetection	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	53	sysUpTime value	axsL2ldPortIndex axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortSourceVlan
38	ax2230sUlrChangeSecondary	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	87	sysUpTime value	axsUlrPortIfIndex axsUlrPairedPortIfIndex
39	ax2230sUlrChangePrimary	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	88	sysUpTime value	axsUlrPortIfIndex axsUlrPairedPortIfIndex
40	dot1agCfmFaultAlarm	Object ID of dot1agMIB 1.3.111.2.802.1.1.8	Specific IP address#	6	1	sysUpTime value	dot1agCfmMdIndex dot1agCfmMaIndex dot1agCfmMepIdentifier
41	ax2230sDeviceErrorTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.18	Specific IP address#	6	90	sysUpTime value	ax2230sMemoryError

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The value of `agent-addr` is set according to the following priorities:

1. The IPv4 address set by using the `snmp-server traps agent-address` configuration command
2. The IPv4 address of an interface in which an IPv4 address is set and that has the lowest ifIndex. The target interface is VLAN. The target interface is VLAN.
3. `0.0.0.0` is set if none of the IPv4 addresses described in 1 to 2 is set.

Table 4-3 List of supported parameters of the Trap-PDU (for SNMPv2C/SNMPv3)

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
1	coldStart	sysUpTime value	Object ID of coldStart (1.3.6.1.6.3.1.1.5.1)	None
2	warmStart	sysUpTime value	Object ID of warmStart (1.3.6.1.6.3.1.1.5.2)	None
3	linkDown	sysUpTime value	Object ID of linkDown (1.3.6.1.6.3.1.1.5.3)	ifIndex AdminStatus OperStatus However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
4	linkUp	sysUpTime value	Object ID of linkUp (1.3.6.1.6.3.1.1.5.4)	ifIndex AdminStatus OperStatus However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
5	authenticatio n Failure	sysUpTime value	Object ID of authentication Failure (1.3.6.1.6.3.1.1.5.5)	None
6	risingAlarm	sysUpTime value	Object ID of risingAlarm (1.3.6.1.2.1.16.0.1)	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmRisingThreshold
7	fallingAlarm	sysUpTime value	Object ID of fallingAlarm (1.3.6.1.2.1.16.0.2)	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmFallingThreshold

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
8	ax2230sTemperatureTrap	sysUpTime value	Object ID of ax2230sTemperatureTrap (1.3.6.1.4.1.21839.1.2.18.0.4)	ax2230sChassisIndex ax2230sTemperatureStatusIndex ax2230sTemperatureStatusDescr ax2230sTemperatureStatusValue ax2230sTemperatureState
9	ax2230sAirFanStopTrap	sysUpTime value	Object ID of ax2230sAirFanStopTrap (1.3.6.1.4.1.21839.1.2.18.0.8)	None
10	ax2230sLoginSuccessTrap	sysUpTime value	Object ID of ax2230sLoginSuccessTrap (1.3.6.1.4.1.21839.1.2.18.0.10)	axsLoginName, axsLoginTime, axsLoginLocation, axsLoginLine
11	ax2230sLoginFailureTrap	sysUpTime value	Object ID of ax2230sLoginFailureTrap (1.3.6.1.4.1.21839.1.2.18.0.11)	axsLoginName, axsLoginFailureTime, axsLoginLocation, axsLoginLine
12	ax2230sLogoutTrap	sysUpTime value	Object ID of ax2230sLogoutTrap (1.3.6.1.4.1.21839.1.2.18.0.12)	axsLoginName, axsLoginTime, axsLogoutTime, axsLoginLocation, axsLoginLine, axsLogoutStatus
13	ax2230sBroadcastStormDetectTrap	sysUpTime value	Object ID of ax2230sBroadcastStormDetectTrap (1.3.6.1.4.1.21839.1.2.18.0.20)	ifIndex
14	ax2230sMulticastStormDetectTrap	sysUpTime value	Object ID of ax2230sMulticastStormDetectTrap (1.3.6.1.4.1.21839.1.2.18.0.21)	ifIndex
15	ax2230sUnicastStormDetectTrap	sysUpTime value	Object ID of ax2230sUnicastStormDetectTrap (1.3.6.1.4.1.21839.1.2.18.0.22)	ifIndex
16	ax2230sBroadcastStormPortInactivateTrap	sysUpTime value	Object ID of ax2230sBroadcastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.18.0.23)	ifIndex

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
17	ax2230sMulticastStormPortInactivateTrap	sysUpTime value	Object ID of ax2230sMulticastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.18.0.24)	ifIndex
18	ax2230sUnicastStormPortInactivateTrap	sysUpTime value	Object ID of ax2230sUnicastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.18.0.25)	ifIndex
19	ax2230sBroadcastStormRecoverTrap	sysUpTime value	Object ID of ax2230sBroadcastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.18.0.26)	ifIndex
20	ax2230sMulticastStormRecoverTrap	sysUpTime value	Object ID of ax2230sMulticastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.18.0.27)	ifIndex
21	ax2230sUnicastStormRecoverTrap	sysUpTime value	Object ID of ax2230sUnicastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.18.0.28)	ifIndex
22	ax2230sEfmoamUdldPortInactivateTrap	sysUpTime value	Object ID of ax2230sEfmoamUdldPortInactivateTrap (1.3.6.1.4.1.21839.1.2.18.0.29)	ifIndex
23	pethPsePortOnOffNotification	sysUpTime value	Object ID of pethPsePortOnOffNotification (1.3.6.1.2.1.105.0.1)	pethPsePortDetectionStatus
24	pethMainPowerUsageOnNotification	sysUpTime value	Object ID of pethMainPowerUsageOnNotification (1.3.6.1.2.1.105.0.2)	pethMainPseConsumptionPower
25	pethMainPowerUsageOffNotification	sysUpTime value	Object ID of pethMainPowerUsageOffNotification (1.3.6.1.2.1.105.0.3)	pethMainPseConsumptionPower
26	ax2230sDot1xFailureTrap	sysUpTime value	Object ID of ax2230sDot1xFailureTrap （1.3.6.1.4.1.21839.1.2	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
			.18.0.31）	
27	ax2230sDot1xEventTrap	sysUpTime value	Object ID of ax2230sDot1xEventTrap （1.3.6.1.4.1.21839.1.2.18.0.32）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
28	ax2230sWauthFailureTrap	sysUpTime value	Object ID of ax2230sWauthFailureTrap （1.3.6.1.4.1.21839.1.2.18.0.33）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
29	ax2230sWauthEventTrap	sysUpTime value	Object ID of ax2230sWauthEventTrap （1.3.6.1.4.1.21839.1.2.18.0.34）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
30	ax2230sMauthFailureTrap	sysUpTime value	Object ID of ax2230sMauthFailureTrap （1.3.6.1.4.1.21839.1.2.18.0.35）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
31	ax2230sMauthEventTrap	sysUpTime value	Object ID of ax2230sMauthEventTrap （1.3.6.1.4.1.21839.1.2.18.0.36）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
32	ax2230sDot1xSystemTrap	sysUpTime value	Object ID of ax2230sDot1xSystemTrap （1.3.6.1.4.1.21839.1.2.18.0.37）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
33	ax2230sWauthSystemTrap	sysUpTime value	Object ID of ax2230sWauthSystemTrap （1.3.6.1.4.1.21839.1.2.18.0.38）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage
34	ax2230sMauthSystemTrap	sysUpTime value	Object ID of ax2230sMauthSystemTrap （1.3.6.1.4.1.21839.1.2.18.0.39）	ax2230sAuthSysName ax2230sAuthIfIndex ax2230sAuthSupplicantMac ax2230sAuthMessage

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
35	ax2230sL2ldLinkDown	sysUpTime value	Object ID of ax2230sL2ldLinkDown (1.3.6.1.4.1.21839.1.2.18.0.51)	axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortDestinationPortIfindex axsL2ldPortSourceVlan
36	ax2230sL2ldLinkUp	sysUpTime value	Object ID of ax2230sL2ldLinkUp (1.3.6.1.4.1.21839.1.2.18.0.52)	axsL2ldPortIfIndex
37	ax2230sL2ldLoopDetection	sysUpTime value	Object ID of ax2230sL2ldLoopDetection (1.3.6.1.4.1.21839.1.2.18.0.53)	axsL2ldPortIndex axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortSourceVlan
38	ax2230sUlrChangeSecondary	sysUpTime value	Object ID of ax2230sUlrChangeSecondary (1.3.6.1.4.1.21839.1.2.18.0.87)	axsUlrPortIfIndex axsUlrPairedPortIfIndex
39	ax2230sUlrChangePrimary	sysUpTime value	Object ID of ax2230sUlrChangePrimary (1.3.6.1.4.1.21839.1.2.18.0.88)	axsUlrPortIfIndex axsUlrPairedPortIfIndex
40	dot1agCfmFaultAlarm	sysUpTime value	Object ID of dot1agCfmFaultAlarm (1.3.111.2.802.1.1.8.0.1)	dot1agCfmMdIndex dot1agCfmMaIndex dot1agCfmMepIdentifier
41	ax2230sDeviceErrorTrap	sysUpTime value	Object ID of ax2230sDeviceErrorTrap (1.3.6.1.4.1.21839.1.2.18.0.90)	ax2230sMemoryError

4.3 Supported Trap-PDU parameters [AX1250S]

The supported parameters of the Trap-PDU are shown in *Table 4-4 List of supported parameters of the Trap-PDU (for SNMPv1)* for SNMPv1 and *Table 4-5 List of supported parameters of the Trap-PDU (for SNMPv2C/SNMPv3)* for SNMPv2C/SNMPv3.

Table 4-4 List of supported parameters of the Trap-PDU (for SNMPv1)

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
1	coldStart	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	0	0	sysUpTime value	None
2	warmStart	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	1	0	sysUpTime value	None
3	linkDown	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	2	0	sysUpTime value	ifIndex However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
4	linkUp	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	3	0	sysUpTime value	ifIndex However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
5	authenticationFailure	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	4	0	sysUpTime value	None
6	risingAlarm	Object ID of rmon 1.3.6.1.2.1.16	Specific IP address[#]	6	1	sysUpTime value	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmRisingThreshold
7	fallingAlarm	Object ID of rmon 1.3.6.1.2.1.16	Specific IP address[#]	6	2	sysUpTime value	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmFallingThreshold
8	ax1250sTemperatureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	4	sysUpTime value	ax1250sChassisIndex ax1250sTemperatureStatusIndex ax1250sTemperatureStatusDescr ax1250sTemperatureStatusValue ax1250sTemperatureState
9	ax1250sLoginSuccessTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	10	sysUpTime value	axsLoginName, axsLoginTime, axsLoginLocation, axsLoginLine
10	ax1250sLoginFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	11	sysUpTime value	axsLoginName, axsLoginFailureTime, axsLoginLocation, axsLoginLine
11	ax1250sLogoutTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	12	sysUpTime value	axsLoginName, axsLoginTime, axsLogoutTime, axsLoginLocation, axsLoginLine, axsLogoutStatus

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
12	ax1250sBroadcastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	20	sysUpTime value	ifIndex
13	ax1250sMulticastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	21	sysUpTime value	ifIndex
14	ax1250sUnicastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	22	sysUpTime value	ifIndex
15	ax1250sBroadcastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	23	sysUpTime value	ifIndex
16	ax1250sMulticastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	24	sysUpTime value	ifIndex
17	ax1250sUnicastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	25	sysUpTime value	ifIndex
18	ax1250sBroadcastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	26	sysUpTime value	ifIndex
19	ax1250sMulticastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	27	sysUpTime value	ifIndex
20	ax1250sUnicastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	28	sysUpTime value	ifIndex
21	ax1250sEfmoamUdldPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	29	sysUpTime value	ifIndex

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
22	ax1250sDot1xFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	31	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
23	ax1250sDot1xEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	32	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
24	ax1250sWauthFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	33	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
25	ax1250sWauthEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	34	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
26	ax1250sMauthFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	35	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
27	ax1250sMauthEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address[#]	6	36	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
28	ax1250sDot1xSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	37	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
29	ax1250sWauthSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	38	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
30	ax1250sMauthSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	39	sysUpTime value	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
31	ax1250sL2ldLinkDown	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	51	sysUpTime value	axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortDestinationPortIfindex axsL2ldPortSourceVlan
32	ax1250sL2ldLinkUp	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	52	sysUpTime value	axsL2ldPortIfIndex
33	ax1250sL2ldLoopDetection	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	53	sysUpTime value	axsL2ldPortIndex axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortSourceVlan
34	ax1250sUlrChangeSecondary	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	87	sysUpTime value	axsUlrPortIfIndex axsUlrPairedPortIfIndex

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
35	ax1250sUlrChangePrimary	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	88	sysUpTime value	axsUlrPortIfIndex axsUlrPairedPortIfIndex
36	dot1agCfmFaultAlarm	Object ID of dot1agMIB 1.3.111.2.802.1.1.8	Specific IP address#	6	1	sysUpTime value	dot1agCfmMdIndex dot1agCfmMaIndex dot1agCfmMepIdentifier
37	ax1250sDeviceErrorTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.14	Specific IP address#	6	90	sysUpTime value	ax1250sMemoryError

#

The value of `agent-addr` is set according to the following priorities:

1. The IPv4 address set by using the `snmp-server traps agent-address` configuration command
2. The IPv4 address of an interface in which an IPv4 address is set and that has the lowest ifIndex. The target interface is VLAN. The target interface is VLAN.
3. `0.0.0.0` is set if none of the IPv4 addresses described in 1 to 2 is set.

Table 4-5 List of supported parameters of the Trap-PDU (for SNMPv2C/SNMPv3)

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	Variable-Binding [2](SnmpTrapOID.0)	Variable-Binding [3-]
1	coldStart	sysUpTime value	Object ID of coldStart (1.3.6.1.6.3.1.1.5.1)	None
2	warmStart	sysUpTime value	Object ID of warmStart (1.3.6.1.6.3.1.1.5.2)	None
3	linkDown	sysUpTime value	Object ID of linkDown (1.3.6.1.6.3.1.1.5.3)	ifIndex AdminStatus OperStatus However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
4	linkUp	sysUpTime value	Object ID of linkUp (1.3.6.1.6.3.1.1.5.4)	ifIndex AdminStatus OperStatus However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
5	authentication Failure	sysUpTime value	Object ID of authentication Failure (1.3.6.1.6.3.1.1.5.5)	None
6	risingAlarm	sysUpTime value	Object ID of risingAlarm (1.3.6.1.2.1.16.0.1)	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmRisingThreshold
7	fallingAlarm	sysUpTime value	Object ID of fallingAlarm (1.3.6.1.2.1.16.0.2)	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmFallingThreshold
8	ax1250sTemperatureTrap	sysUpTime value	Object ID of ax1250sTemperatureTrap (1.3.6.1.4.1.21839.1.2.14.0.4)	ax1250sChassisIndex ax1250sTemperatureStatusIndex ax1250sTemperatureStatusDescr ax1250sTemperatureStatusValue ax1250sTemperatureState
9	ax1250sLoginSuccessTrap	sysUpTime value	Object ID of ax1250sLoginSuccessTrap (1.3.6.1.4.1.21839.1.2.14.0.10)	axsLoginName, axsLoginTime, axsLoginLocation, axsLoginLine
10	ax1250sLoginFailureTrap	sysUpTime value	Object ID of ax1250sLoginFailureTrap (1.3.6.1.4.1.21839.1.2.14.0.11)	axsLoginName, axsLoginFailureTime, axsLoginLocation, axsLoginLine
11	ax1250sLogoutTrap	sysUpTime value	Object ID of ax1250sLogoutTrap (1.3.6.1.4.1.21839.1.2.14.0.12)	axsLoginName, axsLoginTime, axsLogoutTime, axsLoginLocation, axsLoginLine, axsLogoutStatus

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
12	ax1250sBroadcastStormDetectTrap	sysUpTime value	Object ID of ax1250sBroadcastStormDetectTrap (1.3.6.1.4.1.21839.1.2.14.0.20)	ifIndex
13	ax1250sMulticastStormDetectTrap	sysUpTime value	Object ID of ax1250sMulticastStormDetectTrap (1.3.6.1.4.1.21839.1.2.14.0.21)	ifIndex
14	ax1250sUnicastStormDetectTrap	sysUpTime value	Object ID of ax1250sUnicastStormDetectTrap (1.3.6.1.4.1.21839.1.2.14.0.22)	ifIndex
15	ax1250sBroadcastStormPortInactivateTrap	sysUpTime value	Object ID of ax1250sBroadcastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.14.0.23)	ifIndex
16	ax1250sMulticastStormPortInactivateTrap	sysUpTime value	Object ID of ax1250sMulticastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.14.0.24)	ifIndex
17	ax1250sUnicastStormPortInactivateTrap	sysUpTime value	Object ID of ax1250sUnicastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.14.0.25)	ifIndex
18	ax1250sBroadcastStormRecoverTrap	sysUpTime value	Object ID of ax1250sBroadcastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.14.0.26)	ifIndex
19	ax1250sMulticastStormRecoverTrap	sysUpTime value	Object ID of ax1250sMulticastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.14.0.27)	ifIndex
20	ax1250sUnicastStormRecoverTrap	sysUpTime value	Object ID of ax1250sUnicastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.14.0.28)	ifIndex

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
21	ax1250sEfmoamUdldPortInactivateTrap	sysUpTime value	Object ID of ax1250sEfmoamUdldPortInactivateTrap (1.3.6.1.4.1.21839.1.2.14.0.29)	ifIndex
22	ax1250sDot1xFailureTrap	sysUpTime value	Object ID of ax1250sDot1xFailureTrap （1.3.6.1.4.1.21839.1.2.14.0.31）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
23	ax1250sDot1xEventTrap	sysUpTime value	Object ID of ax1250sDot1xEventTrap （1.3.6.1.4.1.21839.1.2.14.0.32）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
24	ax1250sWauthFailureTrap	sysUpTime value	Object ID of ax1250sWauthFailureTrap （1.3.6.1.4.1.21839.1.2.14.0.33）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
25	ax1250sWauthEventTrap	sysUpTime value	Object ID of ax1250sWauthEventTrap （1.3.6.1.4.1.21839.1.2.14.0.34）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
26	ax1250sMauthFailureTrap	sysUpTime value	Object ID of ax1250sMauthFailureTrap （1.3.6.1.4.1.21839.1.2.14.0.35）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
27	ax1250sMauthEventTrap	sysUpTime value	Object ID of ax1250sMauthEventTrap （1.3.6.1.4.1.21839.1.2.14.0.36）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
28	ax1250sDot1xSystemTrap	sysUpTime value	Object ID of ax1250sDot1xSystemTrap （1.3.6.1.4.1.21839.1.2.14.0.37）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
29	ax1250sWauthSystemTrap	sysUpTime value	Object ID of ax1250sWauthSystemTrap （1.3.6.1.4.1.21839.1.2.14.0.38）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
30	ax1250sMauthSystemTrap	sysUpTime value	Object ID of ax1250sMauthSystemTrap（1.3.6.1.4.1.21839.1.2.14.0.39）	ax1250sAuthSysName ax1250sAuthIfIndex ax1250sAuthSupplicantMac ax1250sAuthMessage
31	ax1250sL2ldLinkDown	sysUpTime value	Object ID of ax1250sL2ldLinkDown (1.3.6.1.4.1.21839.1.2.14.0.51)	axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortDestinationPortIfindex axsL2ldPortSourceVlan
32	ax1250sL2ldLinkUp	sysUpTime value	Object ID of ax1250sL2ldLinkUp (1.3.6.1.4.1.21839.1.2.14.0.52)	axsL2ldPortIfIndex
33	ax1250sL2ldLoopDetection	sysUpTime value	Object ID of ax1250sL2ldLoopDetection (1.3.6.1.4.1.21839.1.2.14.0.53)	axsL2ldPortIndex axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortSourceVlan
34	ax1250sUlrChangeSecondary	sysUpTime value	Object ID of ax1250sUlrChangeSecondary (1.3.6.1.4.1.21839.1.2.14.0.87)	axsUlrPortIfIndex axsUlrPairedPortIfIndex
35	ax1250sUlrChangePrimary	sysUpTime value	Object ID of ax1250sUlrChangePrimary (1.3.6.1.4.1.21839.1.2.14.0.88)	axsUlrPortIfIndex axsUlrPairedPortIfIndex
36	dot1agCfmFaultAlarm	sysUpTime value	Object ID of dot1agCfmFaultAlarm (1.3.111.2.802.1.1.8.0.1)	dot1agCfmMdIndex dot1agCfmMaIndex dot1agCfmMepIdentifier
37	ax1250sDeviceErrorTrap	sysUpTime value	Object ID of ax1250sDeviceErrorTrap (1.3.6.1.4.1.21839.1.2.14.0.90)	ax1250sMemoryError

4.4 Supported parameters of the Trap-PDU [AX1240S]

The supported parameters of the Trap-PDU are shown in *Table 4-6 List of supported parameters of the Trap-PDU (for SNMPv1)* for SNMPv1 and *Table 4-7 List of supported parameters of the Trap-PDU (for SNMPv2C/SNMPv3)* for SNMPv2C/SNMPv3.

Table 4-6 List of supported parameters of the Trap-PDU (for SNMPv1)

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
1	coldStart	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	0	0	sysUpTime value	None
2	warmStart	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	1	0	sysUpTime value	None
3	linkDown	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	2	0	sysUpTime value	ifIndex However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
4	linkUp	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	3	0	sysUpTime value	ifIndex However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
5	authentication Failure	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	4	0	sysUpTime value	None
6	risingAlarm	Object ID of rmon 1.3.6.1.2.1.16	Specific IP address[#]	6	1	sysUpTime value	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmRisingThreshold
7	fallingAlarm	Object ID of rmon 1.3.6.1.2.1.16	Specific IP address[#]	6	2	sysUpTime value	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmFallingThreshold
8	ax1240sTemperatureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	4	sysUpTime value	ax1240sChassisIndex ax1240sTemperatureStatusIndex ax1240sTemperatureStatusDescr ax1240sTemperatureStatusValue ax1240sTemperatureState
9	ax1240sAirFanStopTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	8	sysUpTime value	None
10	ax1240sLoginSuccessTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	10	sysUpTime value	axsLoginName, axsLoginTime, axsLoginLocation, axsLoginLine
11	ax1240sLoginFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	11	sysUpTime value	axsLoginName, axsLoginFailureTime, axsLoginLocation, axsLoginLine
12	ax1240sLogoutTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	12	sysUpTime value	axsLoginName, axsLoginTime, axsLogoutTime, axsLoginLocation, axsLoginLine,

No.	Type	Trap-PDU data value					
		enterprise	**agentaddr**	**generic-trap**	**specific-trap**	**time-stamp**	**variable-bindings**
							axsLogoutStatus
13	ax1240sBroadcastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	20	sysUpTime value	ifIndex
14	ax1240sMulticastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	21	sysUpTime value	ifIndex
15	ax1240sUnicastStormDetectTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	22	sysUpTime value	ifIndex
16	ax1240sBroadcastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	23	sysUpTime value	ifIndex
17	ax1240sMulticastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	24	sysUpTime value	ifIndex
18	ax1240sUnicastStormPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	25	sysUpTime value	ifIndex
19	ax1240sBroadcastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	26	sysUpTime value	ifIndex
20	ax1240sMulticastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	27	sysUpTime value	ifIndex
21	ax1240sUnicastStormRecoverTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	28	sysUpTime value	ifIndex

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
22	ax1240sEfmoamUdldPortInactivateTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	29	sysUpTime value	ifIndex
23	pethPsePortOnOffNotification	Object ID of powerEthernetMIB 1.3.6.1.2.1.105	Specific IP address#	6	1	sysUpTime value	pethPsePortDetectionStatus
24	pethMainPowerUsageOnNotification	Object ID of powerEthernetMIB 1.3.6.1.2.1.105	Specific IP address#	6	2	sysUpTime value	pethMainPseConsumptionPower
25	pethMainPowerUsageOffNotification	Object ID of powerEthernetMIB 1.3.6.1.2.1.105	Specific IP address#	6	3	sysUpTime value	pethMainPseConsumptionPower
26	ax1240sDot1xFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	31	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
27	ax1240sDot1xEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	32	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
28	ax1240sWauthFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	33	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
29	ax1240sWauthEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	34	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
30	ax1240sMauthFailureTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	35	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
31	ax1240sMauthEventTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	36	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
32	ax1240sDot1xSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	37	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
33	ax1240sWauthSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	38	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
34	ax1240sMauthSystemTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address[#]	6	39	sysUpTime value	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage

No.	Type	Trap-PDU data value					
		enterprise	agentaddr	generic-trap	specific-trap	time-stamp	variable-bindings
35	ax1240sL2ldLinkDown	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	51	sysUpTime value	axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortDestinationPortIfindex axsL2ldPortSourceVlan
36	ax1240sL2ldLinkUp	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	52	sysUpTime value	axsL2ldPortIfIndex
37	ax1240sL2ldLoopDetection	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	53	sysUpTime value	axsL2ldPortIndex axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortSourceVlan
38	ax1240sUlrChangeSecondary	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	87	sysUpTime value	axsUlrPortIfIndex axsUlrPairedPortIfIndex
39	ax1240sUlrChangePrimary	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	88	sysUpTime value	axsUlrPortIfIndex axsUlrPairedPortIfIndex
40	dot1agCfmFaultAlarm	Object ID of dot1agMIB 1.3.111.2.802.1.1.8	Specific IP address#	6	1	sysUpTime value	dot1agCfmMdIndex dot1agCfmMaIndex dot1agCfmMepIdentifier
41	ax1240sDeviceErrorTrap	sysObjectID of the Switch 1.3.6.1.4.1.21839.1.2.13	Specific IP address#	6	90	sysUpTime value	ax1240sMemoryError

#

The value of `agent-addr` is set according to the following priorities:

1. The IPv4 address set by using the `snmp-server traps agent-address` configuration command
2. The IPv4 address of an interface in which an IPv4 address is set and that has the lowest ifIndex. The target interface is VLAN. The target interface is VLAN.
3. `0.0.0.0` is set if none of the IPv4 addresses described in 1 to 2 is set.

Table 4-7 List of supported parameters of the Trap-PDU (for SNMPv2C/SNMPv3)

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
1	coldStart	sysUpTime value	Object ID of coldStart (1.3.6.1.6.3.1.1.5.1)	None
2	warmStart	sysUpTime value	Object ID of warmStart (1.3.6.1.6.3.1.1.5.2)	None
3	linkDown	sysUpTime value	Object ID of linkDown (1.3.6.1.6.3.1.1.5.3)	ifIndex AdminStatus OperStatus However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
4	linkUp	sysUpTime value	Object ID of linkUp (1.3.6.1.6.3.1.1.5.4)	ifIndex AdminStatus OperStatus However, the following MIBs are obtained when `private` is set for a `link_trap_bind_info` parameter by using the `snmp-server-traps` configuration command: ifIndex ifDescr ifType
5	authenticatio n Failure	sysUpTime value	Object ID of authentication Failure (1.3.6.1.6.3.1.1.5.5)	None
6	risingAlarm	sysUpTime value	Object ID of risingAlarm (1.3.6.1.2.1.16.0.1)	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmRisingThreshold
7	fallingAlarm	sysUpTime value	Object ID of fallingAlarm (1.3.6.1.2.1.16.0.2)	alarmIndex, alarmVariable, alarmSampleType, alarmValue, alarmFallingThreshold

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
8	ax1240sTemperatureTrap	sysUpTime value	Object ID of ax1240sTemperatureTrap (1.3.6.1.4.1.21839.1.2.13.0.4)	ax1240sChassisIndex ax1240sTemperatureStatusIndex ax1240sTemperatureStatusDescr ax1240sTemperatureStatusValue ax1240sTemperatureState
9	ax1240sAirFanStopTrap	sysUpTime value	Object ID of ax1240sAirFanStopTrap (1.3.6.1.4.1.21839.1.2.13.0.8)	None
10	ax1240sLoginSuccessTrap	sysUpTime value	Object ID of ax1240sLoginSuccessTrap (1.3.6.1.4.1.21839.1.2.13.0.10)	axsLoginName, axsLoginTime, axsLoginLocation, axsLoginLine
11	ax1240sLoginFailureTrap	sysUpTime value	Object ID of ax1240sLoginFailureTrap (1.3.6.1.4.1.21839.1.2.13.0.11)	axsLoginName, axsLoginFailureTime, axsLoginLocation, axsLoginLine
12	ax1240sLogoutTrap	sysUpTime value	Object ID of ax1240sLogoutTrap (1.3.6.1.4.1.21839.1.2.13.0.12)	axsLoginName, axsLoginTime, axsLogoutTime, axsLoginLocation, axsLoginLine, axsLogoutStatus
13	ax1240sBroadcastStormDetectTrap	sysUpTime value	Object ID of ax1240sBroadcastStormDetectTrap (1.3.6.1.4.1.21839.1.2.13.0.20)	ifIndex
14	ax1240sMulticastStormDetectTrap	sysUpTime value	Object ID of ax1240sMulticastStormDetectTrap (1.3.6.1.4.1.21839.1.2.13.0.21)	ifIndex
15	ax1240sUnicastStormDetectTrap	sysUpTime value	Object ID of ax1240sUnicastStormDetectTrap (1.3.6.1.4.1.21839.1.2.13.0.22)	ifIndex
16	ax1240sBroadcastStormPortInactivateTrap	sysUpTime value	Object ID of ax1240sBroadcastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.13.0.23)	ifIndex

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
17	ax1240sMulticastStormPortInactivateTrap	sysUpTime value	Object ID of ax1240sMulticastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.13.0.24)	ifIndex
18	ax1240sUnicastStormPortInactivateTrap	sysUpTime value	Object ID of ax1240sUnicastStormPortInactivateTrap (1.3.6.1.4.1.21839.1.2.13.0.25)	ifIndex
19	ax1240sBroadcastStormRecoverTrap	sysUpTime value	Object ID of ax1240sBroadcastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.13.0.26)	ifIndex
20	ax1240sMulticastStormRecoverTrap	sysUpTime value	Object ID of ax1240sMulticastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.13.0.27)	ifIndex
21	ax1240sUnicastStormRecoverTrap	sysUpTime value	Object ID of ax1240sUnicastStormRecoverTrap (1.3.6.1.4.1.21839.1.2.13.0.28)	ifIndex
22	ax1240sEfmoamUdldPortInactivateTrap	sysUpTime value	Object ID of ax1240sEfmoamUdldPortInactivateTrap (1.3.6.1.4.1.21839.1.2.13.0.29)	ifIndex
23	pethPsePortOnOffNotification	sysUpTime value	Object ID of pethPsePortOnOffNotification (1.3.6.1.2.1.105.0.1)	pethPsePortDetectionStatus
24	pethMainPowerUsageOnNotification	sysUpTime value	Object ID of pethMainPowerUsageOnNotification (1.3.6.1.2.1.105.0.2)	pethMainPseConsumptionPower
25	pethMainPowerUsageOffNotification	sysUpTime value	Object ID of pethMainPowerUsageOffNotification (1.3.6.1.2.1.105.0.3)	pethMainPseConsumptionPower
26	ax1240sDot1xFailureTrap	sysUpTime value	Object ID of ax1240sDot1xFailureTrap （1.3.6.1.4.1.21839.1.2	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
			.13.0.31）	
27	ax1240sDot1xEventTrap	sysUpTime value	Object ID of ax1240sDot1xEventTrap （1.3.6.1.4.1.21839.1.2.13.0.32）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
28	ax1240sWauthFailureTrap	sysUpTime value	Object ID of ax1240sWauthFailureTrap （1.3.6.1.4.1.21839.1.2.13.0.33）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
29	ax1240sWauthEventTrap	sysUpTime value	Object ID of ax1240sWauthEventTrap （1.3.6.1.4.1.21839.1.2.13.0.34）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
30	ax1240sMauthFailureTrap	sysUpTime value	Object ID of ax1240sMauthFailureTrap （1.3.6.1.4.1.21839.1.2.13.0.35）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
31	ax1240sMauthEventTrap	sysUpTime value	Object ID of ax1240sMauthEventTrap （1.3.6.1.4.1.21839.1.2.13.0.36）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
32	ax1240sDot1xSystemTrap	sysUpTime value	Object ID of ax1240sDot1xSystemTrap （1.3.6.1.4.1.21839.1.2.13.0.37）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
33	ax1240sWauthSystemTrap	sysUpTime value	Object ID of ax1240sWauthSystemTrap （1.3.6.1.4.1.21839.1.2.13.0.38）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage
34	ax1240sMauthSystemTrap	sysUpTime value	Object ID of ax1240sMauthSystemTrap （1.3.6.1.4.1.21839.1.2.13.0.39）	ax1240sAuthSysName ax1240sAuthIfIndex ax1240sAuthSupplicantMac ax1240sAuthMessage

No.	Type	Trap-PDU data value		
		Variable-Binding [1](SysUpTime.0)	**Variable-Binding [2](SnmpTrapOID.0)**	**Variable-Binding [3-]**
35	ax1240sL2ldLinkDown	sysUpTime value	Object ID of ax1240sL2ldLinkDown (1.3.6.1.4.1.21839.1.2.13.0.51)	axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortDestinationPortIfindex axsL2ldPortSourceVlan
36	ax1240sL2ldLinkUp	sysUpTime value	Object ID of ax1240sL2ldLinkUp (1.3.6.1.4.1.21839.1.2.13.0.52)	axsL2ldPortIfIndex
37	ax1240sL2ldLoopDetection	sysUpTime value	Object ID of ax1240sL2ldLoopDetection (1.3.6.1.4.1.21839.1.2.13.0.53)	axsL2ldPortIndex axsL2ldPortIfIndex axsL2ldPortSourcePortIfindex axsL2ldPortSourceVlan
38	ax1240sUlrChangeSecondary	sysUpTime value	Object ID of ax1240sUlrChangeSecondary (1.3.6.1.4.1.21839.1.2.13.0.87)	axsUlrPortIfIndex axsUlrPairedPortIfIndex
39	ax1240sUlrChangePrimary	sysUpTime value	Object ID of ax1240sUlrChangePrimary (1.3.6.1.4.1.21839.1.2.13.0.88)	axsUlrPortIfIndex axsUlrPairedPortIfIndex
40	dot1agCfmFaultAlarm	sysUpTime value	Object ID of dot1agCfmFaultAlarm (1.3.111.2.802.1.1.8.0.1)	dot1agCfmMdIndex dot1agCfmMaIndex dot1agCfmMepIdentifier
41	ax1240sDeviceErrorTrap	sysUpTime value	Object ID of ax1240sDeviceErrorTrap (1.3.6.1.4.1.21839.1.2.13.0.90)	ax1240sMemoryError

Appendix

A. Private MIB names and object ID values

For the private MIBs used in this switch, the MIB names and their corresponding object ID values are given below.

A.1 Private MIBs

Private MIB names and their corresponding object ID values are given below.

A.1.1 axsStats group

The MIB names in the axsStats group and their corresponding object ID values are given below.

Table A-1 MIB names in the axsStats group and their corresponding object ID values

MIB name	Object ID
axsStats	1.3.6.1.4.1.21839.2.2.1.1
axsIfStats	1.3.6.1.4.1.21839.2.2.1.1.4
axsIfStatsTable	1.3.6.1.4.1.21839.2.2.1.1.4.1
axsIfStatsEntry	1.3.6.1.4.1.21839.2.2.1.1.4.1.1
axsIfStatsIndex	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.1
axsIfStatsName	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.2
axsIfStatsInMegaOctets	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.3
axsIfStatsInUcastMegaPkts	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.4
axsIfStatsInMulticastMegaPkts	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.5
axsIfStatsInBroadcastMegaPkts	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.6
axsIfStatsOutMegaOctets	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.7
axsIfStatsOutUcastMegaPkts	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.8
axsIfStatsOutMulticastMegaPkts	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.9
axsIfStatsOutBroadcastMegaPkts	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.10
axsIfStatsHighSpeed	1.3.6.1.4.1.21839.2.2.1.1.4.1.1.11
axsQoS	1.3.6.1.4.1.21839.2.2.1.1.6
axsEtherTxQoS	1.3.6.1.4.1.21839.2.2.1.1.6.1
axsEtherTxQoSStatsTable	1.3.6.1.4.1.21839.2.2.1.1.6.1.1
axsEtherTxQoSStatsEntry	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1
axsEtherTxQoSStatsIndex	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1.1

MIB name	Object ID
axsEtherTxQoSStatsMaxQnum	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1.2
axsEtherTxQoSStatsLimitQlen	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1.3
axsEtherTxQoSStatsTotalOutFrames	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1.4
axsEtherTxQoSStatsTotalOutBytesHigh	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1.5
axsEtherTxQoSStatsTotalOutBytesLow	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1.6
axsEtherTxQoSStatsTotalDiscardFrames	1.3.6.1.4.1.21839.2.2.1.1.6.1.1.1.7
axsEtherTxQoSStatsQueueTable	1.3.6.1.4.1.21839.2.2.1.1.6.1.2
axsEtherTxQoSStatsQueueEntry	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1
axsEtherTxQoSStatsQueueIndex	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.1
axsEtherTxQoSStatsQueueQueIndex	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.2
axsEtherTxQoSStatsQueueQlen	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.3
axsEtherTxQoSStatsQueueMaxQlen	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.4
axsEtherTxQoSStatsQueueDiscardFramesClass1	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.5
axsEtherTxQoSStatsQueueDiscardFramesClass2	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.6
axsEtherTxQoSStatsQueueDiscardFramesClass3	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.7
axsEtherTxQoSStatsQueueDiscardFramesClass4	1.3.6.1.4.1.21839.2.2.1.1.6.1.2.1.8

A.1.2 axsFdb group

The MIB names in the axsFdb group and their corresponding object ID values are given below.

Table A-2 MIB names in the axsFdb group and their corresponding object ID values

MIB name	Object ID
axsFdb	1.3.6.1.4.1.21839.2.2.1.5
axsFdbCounterTable	1.3.6.1.4.1.21839.2.2.1.5.1
axsFdbCounterEntry	1.3.6.1.4.1.21839.2.2.1.5.1.1
axsFdbCounterNifIndex	1.3.6.1.4.1.21839.2.2.1.5.1.1.1
axsFdbCounterLineIndex	1.3.6.1.4.1.21839.2.2.1.5.1.1.2
axsFdbCounterCounts	1.3.6.1.4.1.21839.2.2.1.5.1.1.3

MIB name	Object ID
axsFdbCounterType	1.3.6.1.4.1.21839.2.2.1.5.1.1.4
axsFdbCounterLimits	1.3.6.1.4.1.21839.2.2.1.5.1.1.5

A.1.3 axsVlan group

The MIB names in the axsVlan group and their corresponding object ID values are given below.

Table A-3 MIB names in the axsVlan group and their corresponding object ID values

MIB name	Object ID
axsVlan	1.3.6.1.4.1.21839.2.2.1.6
axsVlanBridge	1.3.6.1.4.1.21839.2.2.1.6.1
axsVlanBridgeBase	1.3.6.1.4.1.21839.2.2.1.6.1.1
axsVBBaseTable	1.3.6.1.4.1.21839.2.2.1.6.1.1.1
axsVBBaseEntry	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1
axsVBBaseIndex	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.1
axsVBBaseBridgeAddress	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.2
axsVBBaseNumPorts	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.3
axsVBBaseType	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.4
axsVBBaseVlanIfIndex	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.5
axsVBBaseVlanType	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.6
axsVBBaseVlanID	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.7
axsVBBaseAssociatedPrimaryVlan	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.8
axsVBBaseIfStatus	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.9
axsVBBaseLastChange	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.10
axsVBBasePrivateVlanType	1.3.6.1.4.1.21839.2.2.1.6.1.1.1.1.11
axsVBBasePortTable	1.3.6.1.4.1.21839.2.2.1.6.1.1.2
axsVBBasePortEntry	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1
axsVBBasePortIndex	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.1
axsVBBasePort	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.2
axsVBBasePortIfIndex	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.3

MIB name	Object ID
axsVBBasePortCircuit	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.4
axsVBBasePortDelayExceededDiscards	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.5
axsVBBasePortMtuExceededDiscards	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.6
axsVBBasePortState	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.7
axsVBBasePortTaggedState	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.8
axsVBBasePortTranslatedTagID	1.3.6.1.4.1.21839.2.2.1.6.1.1.2.1.9
axsVlanBridgeStp	1.3.6.1.4.1.21839.2.2.1.6.1.2
axsVBStpTable	1.3.6.1.4.1.21839.2.2.1.6.1.2.1
axsVBStpEntry	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1
axsVBStpIndex	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.1
axsVBStpProtocolSpecification	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.2
axsVBStpPriority	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.3
axsVBStpTimeSinceTopologyChange	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.4
axsVBStpTopChanges	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.5
axsVBStpDesignatedRoot	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.6
axsVBStpRootCost	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.7
axsVBStpRootPort	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.8
axsVBStpMaxAge	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.9
axsVBStpHelloTime	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.10
axsVBStpHoldTime	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.11
axsVBStpForwardDelay	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.12
axsVBStpBridgeMaxAge	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.13
axsVBStpBridgeHelloTime	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.14
axsVBStpBridgeForwardDelay	1.3.6.1.4.1.21839.2.2.1.6.1.2.1.1.15
axsVBStpPortTable	1.3.6.1.4.1.21839.2.2.1.6.1.2.2
axsVBStpPortEntry	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1
axsVBStpPortIndex	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.1
axsVBStpPort	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.2

MIB name	Object ID
axsVBStpPortPriority	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.3
axsVBStpPortState	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.4
axsVBStpPortEnable	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.5
axsVBStpPortPathCost	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.6
axsVBStpPortDesignatedRoot	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.7
axsVBStpPortDesignatedCost	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.8
axsVBStpPortDesignatedBridge	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.9
axsVBStpPortDesignatedPort	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.10
axsVBStpPortForwardTransitions	1.3.6.1.4.1.21839.2.2.1.6.1.2.2.1.11
axsVlanBridgeTp	1.3.6.1.4.1.21839.2.2.1.6.1.4
axsVBTpTable	1.3.6.1.4.1.21839.2.2.1.6.1.4.1
axsVBTpEntry	1.3.6.1.4.1.21839.2.2.1.6.1.4.1.1
axsVBTpIndex	1.3.6.1.4.1.21839.2.2.1.6.1.4.1.1.1
axsVBTpLearnedEntryDiscards	1.3.6.1.4.1.21839.2.2.1.6.1.4.1.1.2
axsVBTpAgingTime	1.3.6.1.4.1.21839.2.2.1.6.1.4.1.1.3
axsVBTpFdbTable	1.3.6.1.4.1.21839.2.2.1.6.1.4.2
axsVBTpFdbEntry	1.3.6.1.4.1.21839.2.2.1.6.1.4.2.1
axsVBTpFdbIndex	1.3.6.1.4.1.21839.2.2.1.6.1.4.2.1.1
axsVBTpFdbAddress	1.3.6.1.4.1.21839.2.2.1.6.1.4.2.1.2
axsVBTpFdbPort	1.3.6.1.4.1.21839.2.2.1.6.1.4.2.1.3
axsVBTpFdbStatus	1.3.6.1.4.1.21839.2.2.1.6.1.4.2.1.4
axsVBTpPortTable	1.3.6.1.4.1.21839.2.2.1.6.1.4.3
axsVBTpPortEntry	1.3.6.1.4.1.21839.2.2.1.6.1.4.3.1
axsVBTpPortIndex	1.3.6.1.4.1.21839.2.2.1.6.1.4.3.1.1
axsVBTpPort	1.3.6.1.4.1.21839.2.2.1.6.1.4.3.1.2
axsVBTpPortMaxInfo	1.3.6.1.4.1.21839.2.2.1.6.1.4.3.1.3
axsVBTpPortInFrames	1.3.6.1.4.1.21839.2.2.1.6.1.4.3.1.4
axsVBTpPortOutFrames	1.3.6.1.4.1.21839.2.2.1.6.1.4.3.1.5

MIB name	Object ID
axsVBTpPortInDiscards	1.3.6.1.4.1.21839.2.2.1.6.1.4.3.1.6
axsVlanBridgeStatic	1.3.6.1.4.1.21839.2.2.1.6.1.5
axsVBStaticTable	1.3.6.1.4.1.21839.2.2.1.6.1.5.1
axsVBStaticEntry	1.3.6.1.4.1.21839.2.2.1.6.1.5.1.1
axsVBStaticIndex	1.3.6.1.4.1.21839.2.2.1.6.1.5.1.1.1
axsVBStaticAddress	1.3.6.1.4.1.21839.2.2.1.6.1.5.1.1.2
axsVBStaticReceivePort	1.3.6.1.4.1.21839.2.2.1.6.1.5.1.1.3
axsVBStaticAllowedToGoTo	1.3.6.1.4.1.21839.2.2.1.6.1.5.1.1.4
axsVBStaticStatus	1.3.6.1.4.1.21839.2.2.1.6.1.5.1.1.5
axsVlanBridgeMaxVlans	1.3.6.1.4.1.21839.2.2.1.6.1.101
axsVlanBridgeMaxSpans	1.3.6.1.4.1.21839.2.2.1.6.1.102

A.1.4 axsL2ldMIB group

The MIB names in the axsL2ldMIB group and their corresponding object ID values are given below.

Table A-4 MIB names in the axsL2ldMIB group and their corresponding object ID values

MIB name	Object ID
axsL2ld	1.3.6.1.4.1.21839.2.2.1.10
axsL2ldGlobalInfo	1.3.6.1.4.1.21839.2.2.1.10.1
axsL2ldVersion	1.3.6.1.4.1.21839.2.2.1.10.1.1
axsL2ldLoopDetectionId	1.3.6.1.4.1.21839.2.2.1.10.1.2
axsL2ldIntervalTime	1.3.6.1.4.1.21839.2.2.1.10.1.3
axsL2ldOutputRate	1.3.6.1.4.1.21839.2.2.1.10.1.4
axsL2ldThreshold	1.3.6.1.4.1.21839.2.2.1.10.1.5
axsL2ldHoldTime	1.3.6.1.4.1.21839.2.2.1.10.1.6
axsL2ldAutoRestoreTime	1.3.6.1.4.1.21839.2.2.1.10.1.7
axsL2ldConfigurationVlanPortCounts	1.3.6.1.4.1.21839.2.2.1.10.1.8
axsL2ldCapacityVlanPortCounts	1.3.6.1.4.1.21839.2.2.1.10.1.9
axsL2ldPortTable	1.3.6.1.4.1.21839.2.2.1.10.2

MIB name	Object ID
axsL2ldPortEntry	1.3.6.1.4.1.21839.2.2.1.10.2.1
axsL2ldPortIndex	1.3.6.1.4.1.21839.2.2.1.10.2.1.1
axsL2ldPortIfIndex	1.3.6.1.4.1.21839.2.2.1.10.2.1.2
axsL2ldPortStatus	1.3.6.1.4.1.21839.2.2.1.10.2.1.3
axsL2ldPortType	1.3.6.1.4.1.21839.2.2.1.10.2.1.4
axsL2ldPortDetectCount	1.3.6.1.4.1.21839.2.2.1.10.2.1.5
axsL2ldPortAutoRestoringTimer	1.3.6.1.4.1.21839.2.2.1.10.2.1.6
axsL2ldPortSourcePortIfindex	1.3.6.1.4.1.21839.2.2.1.10.2.1.7
axsL2ldPortDestinationPortIfindex	1.3.6.1.4.1.21839.2.2.1.10.2.1.8
axsL2ldPortSourceVlan	1.3.6.1.4.1.21839.2.2.1.10.2.1.9
axsL2ldPortHCInFrames	1.3.6.1.4.1.21839.2.2.1.10.2.1.10
axsL2ldPortHCOutFrames	1.3.6.1.4.1.21839.2.2.1.10.2.1.11
axsL2ldPortHCInDiscards	1.3.6.1.4.1.21839.2.2.1.10.2.1.12
axsL2ldPortInactiveCount	1.3.6.1.4.1.21839.2.2.1.10.2.1.13
axsL2ldPortLastInactiveTime	1.3.6.1.4.1.21839.2.2.1.10.2.1.14
axsL2ldPortLastInFramesTime	1.3.6.1.4.1.21839.2.2.1.10.2.1.15

A.1.5 axsUlr group

The MIB names in the axsUlr group and their corresponding object ID values are given below.

Table A-5 MIB names in the axsUlr group and their corresponding object ID values

MIB name	Object ID
axsUlr	1.3.6.1.4.1.21839.2.2.1.20
axsUlrGlobalInfo	1.3.6.1.4.1.21839.2.2.1.20.1
axsUlrVersion	1.3.6.1.4.1.21839.2.2.1.20.1.1
axsUlrID	1.3.6.1.4.1.21839.2.2.1.20.1.2
axsUlrConfigurationPortCounts	1.3.6.1.4.1.21839.2.2.1.20.1.3
axsUlrStartupActivePortSelection	1.3.6.1.4.1.21839.2.2.1.20.1.4
axsUlrPortTable	1.3.6.1.4.1.21839.2.2.1.20.2

MIB name	Object ID
axsUlrPortEntry	1.3.6.1.4.1.21839.2.2.1.20.2.1
axsUlrPortIfIndex	1.3.6.1.4.1.21839.2.2.1.20.2.1.1
axsUlrPortType	1.3.6.1.4.1.21839.2.2.1.20.2.1.2
axsUlrPairedPortIfIndex	1.3.6.1.4.1.21839.2.2.1.20.2.1.3
axsUlrPortStatus	1.3.6.1.4.1.21839.2.2.1.20.2.1.4
axsUlrPairedPortStatus	1.3.6.1.4.1.21839.2.2.1.20.2.1.5
axsUlrAutoChangeToPrimary	1.3.6.1.4.1.21839.2.2.1.20.2.1.6
axsUlrAutoChangeToPrimaryDelay	1.3.6.1.4.1.21839.2.2.1.20.2.1.7
axsUlrAutoChangeToPrimaryRest	1.3.6.1.4.1.21839.2.2.1.20.2.1.8
axsUlrStartupActivePortSelectionStatus	1.3.6.1.4.1.21839.2.2.1.20.2.1.9
axsUlrFlushTransmit	1.3.6.1.4.1.21839.2.2.1.20.2.1.10
axsUlrFlushVlan	1.3.6.1.4.1.21839.2.2.1.20.2.1.11
axsUlrMacAddressUpdateTransmit	1.3.6.1.4.1.21839.2.2.1.20.2.1.12
axsUlrLastActivePortDecisionTime	1.3.6.1.4.1.21839.2.2.1.20.2.1.13
axsUlrLastFlushTransmitTime	1.3.6.1.4.1.21839.2.2.1.20.2.1.14
axsUlrLastMacUpdateTransmitTime	1.3.6.1.4.1.21839.2.2.1.20.2.1.15
axsUlrLastChangeFactor	1.3.6.1.4.1.21839.2.2.1.20.2.1.16
axsUlrFlushTransmitTotalPackets	1.3.6.1.4.1.21839.2.2.1.20.2.1.17
axsUlrMacAddressUpdateTransmitTotalPackets	1.3.6.1.4.1.21839.2.2.1.20.2.1.18
axsUlrMacAddressUpdateTransmitOverFlow	1.3.6.1.4.1.21839.2.2.1.20.2.1.19
axsUlrActiveDecisionCount	1.3.6.1.4.1.21839.2.2.1.20.2.1.20

A.1.6 axsBootManagement group

The MIB names in the axsBootManagement group and their corresponding object ID values are given below.

Table A-6 MIB names in the axsBootManagement group and their corresponding object ID values

MIB name	Object ID
axsBootManagement	1.3.6.1.4.1.21839.2.2.1.51
axsBootReason	1.3.6.1.4.1.21839.2.2.1.51.1

A.1.7 axsLogin group

The MIB names in the axsLogin group and their corresponding object ID values are given below.

Table A-7 MIB names in the axsLogin group and their corresponding object ID values

MIB name	Object ID
axsLogin	1.3.6.1.4.1.21839.2.2.1.52
axsLoginName	1.3.6.1.4.1.21839.2.2.1.52.1
axsLoginTime	1.3.6.1.4.1.21839.2.2.1.52.2
axsLogoutTime	1.3.6.1.4.1.21839.2.2.1.52.3
axsLoginFailureTime	1.3.6.1.4.1.21839.2.2.1.52.4
axsLoginLocation	1.3.6.1.4.1.21839.2.2.1.52.5
axsLoginLine	1.3.6.1.4.1.21839.2.2.1.52.6
axsLogoutStatus	1.3.6.1.4.1.21839.2.2.1.52.7

A.1.8 axslldp group

The MIB names in the axslldp group and their corresponding object ID values are given below.

Table A-8 MIB names in the axslldp group and their corresponding object ID values

MIB name	Object ID
axslldp	1.3.6.1.4.1.21839.2.2.1.100
axslldpConfiguration	1.3.6.1.4.1.21839.2.2.1.100.1
axslldpMessageTxInterval	1.3.6.1.4.1.21839.2.2.1.100.1.1
axslldpMessageTxHoldMultiplier	1.3.6.1.4.1.21839.2.2.1.100.1.2
axslldpReinitDelay	1.3.6.1.4.1.21839.2.2.1.100.1.3
axslldpTxDelay	1.3.6.1.4.1.21839.2.2.1.100.1.4
axslldpPortConfigTable	1.3.6.1.4.1.21839.2.2.1.100.1.6
axslldpPortConfigEntry	1.3.6.1.4.1.21839.2.2.1.100.1.6.1
axslldpPortConfigPortNum	1.3.6.1.4.1.21839.2.2.1.100.1.6.1.2
axslldpPortConfigAdminStatus	1.3.6.1.4.1.21839.2.2.1.100.1.6.1.3
axslldpPortConfigTLVsTxEnable	1.3.6.1.4.1.21839.2.2.1.100.1.6.1.4
axslldpPortConfigRowStatus	1.3.6.1.4.1.21839.2.2.1.100.1.6.1.5
axslldpConfigManAddrTable	1.3.6.1.4.1.21839.2.2.1.100.1.7

MIB name	Object ID
axslldpConfigManAddrEntry	1.3.6.1.4.1.21839.2.2.1.100.1.7.1
axslldpConfigManAddrPortsTxEnable	1.3.6.1.4.1.21839.2.2.1.100.1.7.1.1
axslldpStats	1.3.6.1.4.1.21839.2.2.1.100.2
axslldpStatsTable	1.3.6.1.4.1.21839.2.2.1.100.2.1
axslldpStatsEntry	1.3.6.1.4.1.21839.2.2.1.100.2.1.1
axslldpStatsPortNum	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.2
axslldpStatsOperStatus	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.3
axslldpStatsFramesInErrors	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.4
axslldpStatsFramesInTotal	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.5
axslldpStatsFramesOutTotal	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.6
axslldpStatsTLVsInErrors	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.7
axslldpStatsTLVsDiscardedTotal	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.8
axslldpStatsCounterDiscontinuityTime	1.3.6.1.4.1.21839.2.2.1.100.2.1.1.9
axslldpLocalSystemData	1.3.6.1.4.1.21839.2.2.1.100.3
axslldpLocChassisType	1.3.6.1.4.1.21839.2.2.1.100.3.1
axslldpLocChassisId	1.3.6.1.4.1.21839.2.2.1.100.3.2
axslldpLocSysName	1.3.6.1.4.1.21839.2.2.1.100.3.3
axslldpLocSysDesc	1.3.6.1.4.1.21839.2.2.1.100.3.4
axslldpLocSysCapSupported	1.3.6.1.4.1.21839.2.2.1.100.3.5
axslldpLocSysCapEnabled	1.3.6.1.4.1.21839.2.2.1.100.3.6
axslldpLocPortTable	1.3.6.1.4.1.21839.2.2.1.100.3.7
axslldpLocPortEntry	1.3.6.1.4.1.21839.2.2.1.100.3.7.1
axslldpLocPortNum	1.3.6.1.4.1.21839.2.2.1.100.3.7.1.1
axslldpLocPortType	1.3.6.1.4.1.21839.2.2.1.100.3.7.1.2
axslldpLocPortId	1.3.6.1.4.1.21839.2.2.1.100.3.7.1.3
axslldpLocPortDesc	1.3.6.1.4.1.21839.2.2.1.100.3.7.1.4
axslldpLocManAddrTable	1.3.6.1.4.1.21839.2.2.1.100.3.8
axslldpLocManAddrEntry	1.3.6.1.4.1.21839.2.2.1.100.3.8.1

MIB name	Object ID
axslldpLocManAddrType	1.3.6.1.4.1.21839.2.2.1.100.3.8.1.1
axslldpLocManAddr	1.3.6.1.4.1.21839.2.2.1.100.3.8.1.1.2
axslldpLocManAddrIfSubtype	1.3.6.1.4.1.21839.2.2.1.100.3.8.1.1.3
axslldpLocManAddrIfId	1.3.6.1.4.1.21839.2.2.1.100.3.8.1.1.4
axslldpLocManAddrOID	1.3.6.1.4.1.21839.2.2.1.100.3.8.1.1.5
axslldpRemoteSystemData	1.3.6.1.4.1.21839.2.2.1.100.4
axslldpRemTable	1.3.6.1.4.1.21839.2.2.1.100.4.1
axslldpRemEntry	1.3.6.1.4.1.21839.2.2.1.100.4.1.1
axslldpRemTimeMark	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.1
axslldpRemLocalPortNum	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.2
axslldpRemIndex	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.3
axslldpRemRemoteChassisType	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.4
axslldpRemRemoteChassis	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.5
axslldpRemRemotePortType	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.6
axslldpRemRemotePort	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.7
axslldpRemPortDesc	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.8
axslldpRemSysName	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.9
axslldpRemSysDesc	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.10
axslldpRemSysCapSupported	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.11
axslldpRemSysCapEnabled	1.3.6.1.4.1.21839.2.2.1.100.4.1.1.12
axslldpRemManAddrTable	1.3.6.1.4.1.21839.2.2.1.100.4.2
axslldpRemManAddrEntry	1.3.6.1.4.1.21839.2.2.1.100.4.2.1
axslldpRemManAddrType	1.3.6.1.4.1.21839.2.2.1.100.4.2.1.1
axslldpRemManAddr	1.3.6.1.4.1.21839.2.2.1.100.4.2.1.2
axslldpRemManAddrIfSubtype	1.3.6.1.4.1.21839.2.2.1.100.4.2.1.3
axslldpRemManAddrIfId	1.3.6.1.4.1.21839.2.2.1.100.4.2.1.4
axslldpRemManAddrOID	1.3.6.1.4.1.21839.2.2.1.100.4.2.1.5
axslldpRemOrgDefInfoTable	1.3.6.1.4.1.21839.2.2.1.100.4.3

MIB name	Object ID
axslldpRemOrgDefInfoEntry	1.3.6.1.4.1.21839.2.2.1.100.4.3.1
axslldpRemOrgDefInfoOUI	1.3.6.1.4.1.21839.2.2.1.100.4.3.1.1
axslldpRemOrgDefInfoSubtype	1.3.6.1.4.1.21839.2.2.1.100.4.3.1.2
axslldpRemOrgDefInfoIndex	1.3.6.1.4.1.21839.2.2.1.100.4.3.1.3
axslldpRemOrgDefInfo	1.3.6.1.4.1.21839.2.2.1.100.4.3.1.4
axslldpRemoteOriginInfoData	1.3.6.1.4.1.21839.2.2.1.100.20
axslldpRemOriginInfoTable	1.3.6.1.4.1.21839.2.2.1.100.20.1
axslldpRemOriginInfoEntry	1.3.6.1.4.1.21839.2.2.1.100.20.1.1
axslldpRemOriginInfoPortNum	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.1
axslldpRemOriginInfoIndex	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.2
axslldpRemOriginInfoLowerVlanList	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.3
axslldpRemOriginInfoHigherVlanList	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.4
axslldpRemOriginInfoIPv4Address	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.5
axslldpRemOriginInfoIPv4PortType	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.6
axslldpRemOriginInfoIPv4VlanId	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.7
axslldpRemOriginInfoIPv6Address	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.8
axslldpRemOriginInfoIPv6PortType	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.9
axslldpRemOriginInfoIPv6VlanId	1.3.6.1.4.1.21839.2.2.1.100.20.1.1.10

A.1.9 axsAxrpMIB group

The MIB names in the axsAxrpMIB group and their corresponding object ID values are given below.

Table A-9 MIB names in the axsAxrpMIB group and their corresponding object ID values

MIB name	Object ID
axsAxrp	1.3.6.1.4.1.21839.2.2.1.200
axsAxrpGroupTable	1.3.6.1.4.1.21839.2.2.1.200.1
axsAxrpGroupEntry	1.3.6.1.4.1.21839.2.2.1.200.1.1
axsAxrpGroupRingId	1.3.6.1.4.1.21839.2.2.1.200.1.1.1
axsAxrpGroupRowStatus	1.3.6.1.4.1.21839.2.2.1.200.1.1.2

MIB name	Object ID
axsAxrpGroupMode	1.3.6.1.4.1.21839.2.2.1.200.1.1.3
axsAxrpGroupRingAttribute	1.3.6.1.4.1.21839.2.2.1.200.1.1.4
axsAxrpGroupMonitoringState	1.3.6.1.4.1.21839.2.2.1.200.1.1.5
axsAxrpGroupRingport1	1.3.6.1.4.1.21839.2.2.1.200.1.1.6
axsAxrpGroupRingport1Shared	1.3.6.1.4.1.21839.2.2.1.200.1.1.7
axsAxrpGroupRingport2	1.3.6.1.4.1.21839.2.2.1.200.1.1.8
axsAxrpGroupRingport2Shared	1.3.6.1.4.1.21839.2.2.1.200.1.1.9
axsAxrpGroupTransitionToFaultCounts	1.3.6.1.4.1.21839.2.2.1.200.1.1.10
axsAxrpGroupTransitionToNormalCounts	1.3.6.1.4.1.21839.2.2.1.200.1.1.11
axsAxrpGroupLastTransitionTime	1.3.6.1.4.1.21839.2.2.1.200.1.1.12
axsAxrpGroupMultiFaultDetectionState	1.3.6.1.4.1.21839.2.2.1.200.1.1.22
axsAxrpVlanGroupTable	1.3.6.1.4.1.21839.2.2.1.200.2
axsAxrpVlanGroupEntry	1.3.6.1.4.1.21839.2.2.1.200.2.1
axsAxrpVlanGroupRingId	1.3.6.1.4.1.21839.2.2.1.200.2.1.1
axsAxrpVlanGroupId	1.3.6.1.4.1.21839.2.2.1.200.2.1.2
axsAxrpVlanGroupRingport1	1.3.6.1.4.1.21839.2.2.1.200.2.1.3
axsAxrpVlanGroupRingport1Role	1.3.6.1.4.1.21839.2.2.1.200.2.1.4
axsAxrpVlanGroupRingport1OperState	1.3.6.1.4.1.21839.2.2.1.200.2.1.5
axsAxrpVlanGroupRingport2	1.3.6.1.4.1.21839.2.2.1.200.2.1.6
axsAxrpVlanGroupRingport2Role	1.3.6.1.4.1.21839.2.2.1.200.2.1.7
axsAxrpVlanGroupRingport2OperState	1.3.6.1.4.1.21839.2.2.1.200.2.1.8

A.1.10 ax2230sSwitch group [AX2200S]

The MIB names in the ax2230sSwitch group and their corresponding object ID values are given below.

Table A-10 MIB names in the ax2230sSwitch group and their corresponding object ID values

MIB name	Object ID
ax2230sSwitch	1.3.6.1.4.1.21839.2.2.18.1
ax2230sModelType	1.3.6.1.4.1.21839.2.2.18.1.1

MIB name	Object ID
ax2230sSoftware	1.3.6.1.4.1.21839.2.2.18.1.2
ax2230sSoftwareName	1.3.6.1.4.1.21839.2.2.18.1.2.1
ax2230sSoftwareAbbreviation	1.3.6.1.4.1.21839.2.2.18.1.2.2
ax2230sSoftwareVersion	1.3.6.1.4.1.21839.2.2.18.1.2.3
ax2230sSystemMsg	1.3.6.1.4.1.21839.2.2.18.1.3
ax2230sSystemMsgText	1.3.6.1.4.1.21839.2.2.18.1.3.1
ax2230sSystemMsgType	1.3.6.1.4.1.21839.2.2.18.1.3.2
ax2230sSystemMsgTimeStamp	1.3.6.1.4.1.21839.2.2.18.1.3.3
ax2230sSystemMsgLevel	1.3.6.1.4.1.21839.2.2.18.1.3.4
ax2230sSystemMsgEventPoint	1.3.6.1.4.1.21839.2.2.18.1.3.5
ax2230sSystemMsgEventInterfaceID	1.3.6.1.4.1.21839.2.2.18.1.3.6
ax2230sSystemMsgEventCode	1.3.6.1.4.1.21839.2.2.18.1.3.7
ax2230sSystemMsgAdditionalCode	1.3.6.1.4.1.21839.2.2.18.1.3.8
ax2230sSnmpAgent	1.3.6.1.4.1.21839.2.2.18.1.4
ax2230sSnmpSendReceiveSize	1.3.6.1.4.1.21839.2.2.18.1.4.1
ax2230sSnmpReceiveDelay	1.3.6.1.4.1.21839.2.2.18.1.4.2
ax2230sSnmpContinuousSend	1.3.6.1.4.1.21839.2.2.18.1.4.3
ax2230sSnmpObjectMaxNumber	1.3.6.1.4.1.21839.2.2.18.1.4.4
ax2230sLicense	1.3.6.1.4.1.21839.2.2.18.1.6
ax2230sLicenseNumber	1.3.6.1.4.1.21839.2.2.18.1.6.1
ax2230sLicenseTable	1.3.6.1.4.1.21839.2.2.18.1.6.2
ax2230sLicenseEntry	1.3.6.1.4.1.21839.2.2.18.1.6.2.1
ax2230sLicenseIndex	1.3.6.1.4.1.21839.2.2.18.1.6.2.1.1
ax2230sLicenseSerialNumber	1.3.6.1.4.1.21839.2.2.18.1.6.2.1.2
ax2230sLicenseOptionNumber	1.3.6.1.4.1.21839.2.2.18.1.6.2.1.3
ax2230sLicenseOptionTable	1.3.6.1.4.1.21839.2.2.18.1.6.3
ax2230sLicenseOptionEntry	1.3.6.1.4.1.21839.2.2.18.1.6.3.1
ax2230sLicenseOptionIndex	1.3.6.1.4.1.21839.2.2.18.1.6.3.1.1

MIB name	Object ID
ax2230sLicenseOptionNumberIndex	1.3.6.1.4.1.21839.2.2.18.1.6.3.1.2
ax2230sLicenseOptionSoftwareName	1.3.6.1.4.1.21839.2.2.18.1.6.3.1.3
ax2230sLicenseOptionSoftwareAbbreviation	1.3.6.1.4.1.21839.2.2.18.1.6.3.1.4

A.1.11 ax2230sDevice group [AX2200S]

The MIB names in the ax2230sDevice group and their corresponding object ID values are given below.

Table A-11 MIB names in the ax2230sDevice group and their corresponding object ID values

MIB name	Object ID
ax2230sDevice	1.3.6.1.4.1.21839.2.2.18.2
ax2230sChassis	1.3.6.1.4.1.21839.2.2.18.2.1
ax2230sChassisMaxNumber	1.3.6.1.4.1.21839.2.2.18.2.1.1
ax2230sChassisTable	1.3.6.1.4.1.21839.2.2.18.2.1.2
ax2230sChassisEntry	1.3.6.1.4.1.21839.2.2.18.2.1.2.1
ax2230sChassisIndex	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.1
ax2230sChassisType	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.2
ax2230sChassisStatus	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.3
ax2230sStsLedStatus	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.4
ax2230sMemoryTotalSize	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.7
ax2230sMemoryUsedSize	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.8
ax2230sMemoryFreeSize	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.9
ax2230sCpuLoad1m	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.11
ax2230sPhysLineNumber	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.19
ax2230sTemperatureStatusNumber	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.20
ax2230sPowerUnitNumber	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.21
ax2230sRedundantPsNumber	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.22
ax2230sFanNumber	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.23
ax2230sTotalAccumRunTime	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.24
ax2230sCriticalAccumRunTime	1.3.6.1.4.1.21839.2.2.18.2.1.2.1.25

MIB name	Object ID
ax2230sTemperatureStatusTable	1.3.6.1.4.1.21839.2.2.18.2.1.3
ax2230sTemperatureStatusEntry	1.3.6.1.4.1.21839.2.2.18.2.1.3.1
ax2230sTemperatureStatusIndex	1.3.6.1.4.1.21839.2.2.18.2.1.3.1.1
ax2230sTemperatureStatusDescr	1.3.6.1.4.1.21839.2.2.18.2.1.3.1.2
ax2230sTemperatureStatusValue	1.3.6.1.4.1.21839.2.2.18.2.1.3.1.3
ax2230sTemperatureThreshold	1.3.6.1.4.1.21839.2.2.18.2.1.3.1.4
ax2230sTemperatureState	1.3.6.1.4.1.21839.2.2.18.2.1.3.1.5
ax2230sPowerUnitTable	1.3.6.1.4.1.21839.2.2.18.2.1.4
ax2230sPowerUnitEntry	1.3.6.1.4.1.21839.2.2.18.2.1.4.1
ax2230sPowerUnitIndex	1.3.6.1.4.1.21839.2.2.18.2.1.4.1.1
ax2230sPowerConnectStatus	1.3.6.1.4.1.21839.2.2.18.2.1.4.1.2
ax2230sPowerSupplyStatus	1.3.6.1.4.1.21839.2.2.18.2.1.4.1.3
ax2230sFanTable	1.3.6.1.4.1.21839.2.2.18.2.1.5
ax2230sFanEntry	1.3.6.1.4.1.21839.2.2.18.2.1.5.1
ax2230sFanIndex	1.3.6.1.4.1.21839.2.2.18.2.1.5.1.1
ax2230sFanStatus	1.3.6.1.4.1.21839.2.2.18.2.1.5.1.2
ax2230sPhysLine	1.3.6.1.4.1.21839.2.2.18.2.2
ax2230sPhysLineTable	1.3.6.1.4.1.21839.2.2.18.2.2.1
ax2230sPhysLineEntry	1.3.6.1.4.1.21839.2.2.18.2.2.1.1
ax2230sPhysLineIndex	1.3.6.1.4.1.21839.2.2.18.2.2.1.1.1
ax2230sPhysLineConnectorType	1.3.6.1.4.1.21839.2.2.18.2.2.1.1.2
ax2230sPhysLineOperStatus	1.3.6.1.4.1.21839.2.2.18.2.2.1.1.3
ax2230sPhysLineIfIndexNumber	1.3.6.1.4.1.21839.2.2.18.2.2.1.1.4
ax2230sPhysLineTransceiverStatus	1.3.6.1.4.1.21839.2.2.18.2.2.1.1.5
ax2230sDeviceError	1.3.6.1.4.1.21839.2.2.18.2.3
ax2230sMemoryError	1.3.6.1.4.1.21839.2.2.18.2.3.1

A.1.12 ax2230sAuth group [AX2200S]

The MIB names in the ax2230sAuth group and their corresponding object ID values are given below.

Table A-12 MIB names in the ax2230sAuth group and their corresponding object ID values

MIB name	Object ID
ax2230sAuth	1.3.6.1.4.1.21839.2.2.18.10
ax2230sAuthInfo	1.3.6.1.4.1.21839.2.2.18.10.1
ax2230sAuthSysName	1.3.6.1.4.1.21839.2.2.18.10.1.1
ax2230sAuthIfIndex	1.3.6.1.4.1.21839.2.2.18.10.1.2
ax2230sAuthSupplicantMac	1.3.6.1.4.1.21839.2.2.18.10.1.3
ax2230sAuthMessage	1.3.6.1.4.1.21839.2.2.18.10.1.4

A.1.13 ax1250sSwitch group [AX1250S]

The MIB names in the ax1250sSwitch group and their corresponding object ID values are given below.

Table A-13 MIB names in the ax1250sSwitch group and their corresponding object ID values

MIB name	Object ID
ax1250sSwitch	1.3.6.1.4.1.21839.2.2.14.1
ax1250sModelType	1.3.6.1.4.1.21839.2.2.14.1.1
ax1250sSoftware	1.3.6.1.4.1.21839.2.2.14.1.2
ax1250sSoftwareName	1.3.6.1.4.1.21839.2.2.14.1.2.1
ax1250sSoftwareAbbreviation	1.3.6.1.4.1.21839.2.2.14.1.2.2
ax1250sSoftwareVersion	1.3.6.1.4.1.21839.2.2.14.1.2.3
ax1250sSystemMsg	1.3.6.1.4.1.21839.2.2.14.1.3
ax1250sSystemMsgText	1.3.6.1.4.1.21839.2.2.14.1.3.1
ax1250sSystemMsgType	1.3.6.1.4.1.21839.2.2.14.1.3.2
ax1250sSystemMsgTimeStamp	1.3.6.1.4.1.21839.2.2.14.1.3.3
ax1250sSystemMsgLevel	1.3.6.1.4.1.21839.2.2.14.1.3.4
ax1250sSystemMsgEventPoint	1.3.6.1.4.1.21839.2.2.14.1.3.5
ax1250sSystemMsgEventInterfaceID	1.3.6.1.4.1.21839.2.2.14.1.3.6
ax1250sSystemMsgEventCode	1.3.6.1.4.1.21839.2.2.14.1.3.7
ax1250sSystemMsgAdditionalCode	1.3.6.1.4.1.21839.2.2.14.1.3.8
ax1250sSnmpAgent	1.3.6.1.4.1.21839.2.2.14.1.4

MIB name	Object ID
ax1250sSnmpSendReceiveSize	1.3.6.1.4.1.21839.2.2.14.1.4.1
ax1250sSnmpReceiveDelay	1.3.6.1.4.1.21839.2.2.14.1.4.2
ax1250sSnmpContinuousSend	1.3.6.1.4.1.21839.2.2.14.1.4.3
ax1250sSnmpObjectMaxNumber	1.3.6.1.4.1.21839.2.2.14.1.4.4
ax1250sLicense	1.3.6.1.4.1.21839.2.2.14.1.6
ax1250sLicenseNumber	1.3.6.1.4.1.21839.2.2.14.1.6.1
ax1250sLicenseTable	1.3.6.1.4.1.21839.2.2.14.1.6.2
ax1250sLicenseEntry	1.3.6.1.4.1.21839.2.2.14.1.6.2.1
ax1250sLicenseIndex	1.3.6.1.4.1.21839.2.2.14.1.6.2.1.1
ax1250sLicenseSerialNumber	1.3.6.1.4.1.21839.2.2.14.1.6.2.1.2
ax1250sLicenseOptionNumber	1.3.6.1.4.1.21839.2.2.14.1.6.2.1.3
ax1250sLicenseOptionTable	1.3.6.1.4.1.21839.2.2.14.1.6.3
ax1250sLicenseOptionEntry	1.3.6.1.4.1.21839.2.2.14.1.6.3.1
ax1250sLicenseOptionIndex	1.3.6.1.4.1.21839.2.2.14.1.6.3.1.1
ax1250sLicenseOptionNumberIndex	1.3.6.1.4.1.21839.2.2.14.1.6.3.1.2
ax1250sLicenseOptionSoftwareName	1.3.6.1.4.1.21839.2.2.14.1.6.3.1.3
ax1250sLicenseOptionSoftwareAbbreviation	1.3.6.1.4.1.21839.2.2.14.1.6.3.1.4

A.1.14 ax1250sDevice group [AX1250S]

The MIB names in the ax1250sDevice group and their corresponding object ID values are given below.

Table A-14 MIB names in the ax1250sDevice group and their corresponding object ID values

MIB name	Object ID
ax1250sDevice	1.3.6.1.4.1.21839.2.2.14.2
ax1250sChassis	1.3.6.1.4.1.21839.2.2.14.2.1
ax1250sChassisMaxNumber	1.3.6.1.4.1.21839.2.2.14.2.1.1
ax1250sChassisTable	1.3.6.1.4.1.21839.2.2.14.2.1.2
ax1250sChassisEntry	1.3.6.1.4.1.21839.2.2.14.2.1.2.1
ax1250sChassisIndex	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.1

MIB name	Object ID
ax1250sChassisType	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.2
ax1250sChassisStatus	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.3
ax1250sStsLedStatus	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.4
ax1250sMemoryTotalSize	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.7
ax1250sMemoryUsedSize	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.8
ax1250sMemoryFreeSize	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.9
ax1250sCpuLoad1m	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.11
ax1250sPhysLineNumber	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.19
ax1250sTemperatureStatusNumber	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.20
ax1250sPowerUnitNumber	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.21
ax1250sRedundantPsNumber	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.22
ax1250sFanNumber	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.23
ax1250sTotalAccumRunTime	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.24
ax1250sCriticalAccumRunTime	1.3.6.1.4.1.21839.2.2.14.2.1.2.1.25
ax1250sTemperatureStatusTable	1.3.6.1.4.1.21839.2.2.14.2.1.3
ax1250sTemperatureStatusEntry	1.3.6.1.4.1.21839.2.2.14.2.1.3.1
ax1250sTemperatureStatusIndex	1.3.6.1.4.1.21839.2.2.14.2.1.3.1.1
ax1250sTemperatureStatusDescr	1.3.6.1.4.1.21839.2.2.14.2.1.3.1.2
ax1250sTemperatureStatusValue	1.3.6.1.4.1.21839.2.2.14.2.1.3.1.3
ax1250sTemperatureThreshold	1.3.6.1.4.1.21839.2.2.14.2.1.3.1.4
ax1250sTemperatureState	1.3.6.1.4.1.21839.2.2.14.2.1.3.1.5
ax1250sPowerUnitTable	1.3.6.1.4.1.21839.2.2.14.2.1.4
ax1250sPowerUnitEntry	1.3.6.1.4.1.21839.2.2.14.2.1.4.1
ax1250sPowerUnitIndex	1.3.6.1.4.1.21839.2.2.14.2.1.4.1.1
ax1250sPowerConnectStatus	1.3.6.1.4.1.21839.2.2.14.2.1.4.1.2
ax1250sPowerSupplyStatus	1.3.6.1.4.1.21839.2.2.14.2.1.4.1.3
ax1250sPhysLine	1.3.6.1.4.1.21839.2.2.14.2.2
ax1250sPhysLineTable	1.3.6.1.4.1.21839.2.2.14.2.2.1

MIB name	Object ID
ax1250sPhysLineEntry	1.3.6.1.4.1.21839.2.2.14.2.2.1.1
ax1250sPhysLineIndex	1.3.6.1.4.1.21839.2.2.14.2.2.1.1.1
ax1250sPhysLineConnectorType	1.3.6.1.4.1.21839.2.2.14.2.2.1.1.2
ax1250sPhysLineOperStatus	1.3.6.1.4.1.21839.2.2.14.2.2.1.1.3
ax1250sPhysLineIfIndexNumber	1.3.6.1.4.1.21839.2.2.14.2.2.1.1.4
ax1250sPhysLineTransceiverStatus	1.3.6.1.4.1.21839.2.2.14.2.2.1.1.5
ax1250sDeviceError	1.3.6.1.4.1.21839.2.2.14.2.3
ax1250sMemoryError	1.3.6.1.4.1.21839.2.2.14.2.3.1

A.1.15 ax1250sAuth group [AX1250S]

The MIB names in the ax1250sAuth group and their corresponding object ID values are given below.

Table A-15 MIB names in the ax1250sAuth group and their corresponding object ID values

MIB name	Object ID
ax1250sAuth	1.3.6.1.4.1.21839.2.2.14.10
ax1250sAuthInfo	1.3.6.1.4.1.21839.2.2.14.10.1
ax1250sAuthSysName	1.3.6.1.4.1.21839.2.2.14.10.1.1
ax1250sAuthIfIndex	1.3.6.1.4.1.21839.2.2.14.10.1.2
ax1250sAuthSupplicantMac	1.3.6.1.4.1.21839.2.2.14.10.1.3
ax1250sAuthMessage	1.3.6.1.4.1.21839.2.2.14.10.1.4

A.1.16 ax1240sSwitch group [AX1240S]

The MIB names in the ax1240sSwitch group and their corresponding object ID values are given below.

Table A-16 MIB names in the ax1240sSwitch group and their corresponding object ID values

MIB name	Object ID
ax1240sSwitch	1.3.6.1.4.1.21839.2.2.13.1
ax1240sModelType	1.3.6.1.4.1.21839.2.2.13.1.1
ax1240sSoftware	1.3.6.1.4.1.21839.2.2.13.1.2
ax1240sSoftwareName	1.3.6.1.4.1.21839.2.2.13.1.2.1

MIB name	Object ID
ax1240sSoftwareAbbreviation	1.3.6.1.4.1.21839.2.2.13.1.2.2
ax1240sSoftwareVersion	1.3.6.1.4.1.21839.2.2.13.1.2.3
ax1240sSystemMsg	1.3.6.1.4.1.21839.2.2.13.1.3
ax1240sSystemMsgText	1.3.6.1.4.1.21839.2.2.13.1.3.1
ax1240sSystemMsgType	1.3.6.1.4.1.21839.2.2.13.1.3.2
ax1240sSystemMsgTimeStamp	1.3.6.1.4.1.21839.2.2.13.1.3.3
ax1240sSystemMsgLevel	1.3.6.1.4.1.21839.2.2.13.1.3.4
ax1240sSystemMsgEventPoint	1.3.6.1.4.1.21839.2.2.13.1.3.5
ax1240sSystemMsgEventInterfaceID	1.3.6.1.4.1.21839.2.2.13.1.3.6
ax1240sSystemMsgEventCode	1.3.6.1.4.1.21839.2.2.13.1.3.7
ax1240sSystemMsgAdditionalCode	1.3.6.1.4.1.21839.2.2.13.1.3.8
ax1240sSnmpAgent	1.3.6.1.4.1.21839.2.2.13.1.4
ax1240sSnmpSendReceiveSize	1.3.6.1.4.1.21839.2.2.13.1.4.1
ax1240sSnmpReceiveDelay	1.3.6.1.4.1.21839.2.2.13.1.4.2
ax1240sSnmpContinuousSend	1.3.6.1.4.1.21839.2.2.13.1.4.3
ax1240sSnmpObjectMaxNumber	1.3.6.1.4.1.21839.2.2.13.1.4.4
ax1240sLicense	1.3.6.1.4.1.21839.2.2.13.1.6
ax1240sLicenseNumber	1.3.6.1.4.1.21839.2.2.13.1.6.1
ax1240sLicenseTable	1.3.6.1.4.1.21839.2.2.13.1.6.2
ax1240sLicenseEntry	1.3.6.1.4.1.21839.2.2.13.1.6.2.1
ax1240sLicenseIndex	1.3.6.1.4.1.21839.2.2.13.1.6.2.1.1
ax1240sLicenseSerialNumber	1.3.6.1.4.1.21839.2.2.13.1.6.2.1.2
ax1240sLicenseOptionNumber	1.3.6.1.4.1.21839.2.2.13.1.6.2.1.3
ax1240sLicenseOptionTable	1.3.6.1.4.1.21839.2.2.13.1.6.3
ax1240sLicenseOptionEntry	1.3.6.1.4.1.21839.2.2.13.1.6.3.1
ax1240sLicenseOptionIndex	1.3.6.1.4.1.21839.2.2.13.1.6.3.1.1
ax1240sLicenseOptionNumberIndex	1.3.6.1.4.1.21839.2.2.13.1.6.3.1.2
ax1240sLicenseOptionSoftwareName	1.3.6.1.4.1.21839.2.2.13.1.6.3.1.3

MIB name	Object ID
ax1240sLicenseOptionSoftwareAbbreviation	1.3.6.1.4.1.21839.2.2.13.1.6.3.1.4

A.1.17 ax1240sDevice group [AX1240S]

The MIB names in the ax1240sDevice group and their corresponding object ID values are given below.

Table A-17 MIB names in the ax1240sDevice group and their corresponding object ID values

MIB name	Object ID
ax1240sDevice	1.3.6.1.4.1.21839.2.2.13.2
ax1240sChassis	1.3.6.1.4.1.21839.2.2.13.2.1
ax1240sChassisMaxNumber	1.3.6.1.4.1.21839.2.2.13.2.1.1
ax1240sChassisTable	1.3.6.1.4.1.21839.2.2.13.2.1.2
ax1240sChassisEntry	1.3.6.1.4.1.21839.2.2.13.2.1.2.1
ax1240sChassisIndex	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.1
ax1240sChassisType	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.2
ax1240sChassisStatus	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.3
ax1240sStsLedStatus	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.4
ax1240sMemoryTotalSize	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.7
ax1240sMemoryUsedSize	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.8
ax1240sMemoryFreeSize	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.9
ax1240sCpuLoad1m	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.11
ax1240sPhysLineNumber	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.19
ax1240sTemperatureStatusNumber	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.20
ax1240sPowerUnitNumber	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.21
ax1240sRedundantPsNumber	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.22
ax1240sFanNumber	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.23
ax1240sTotalAccumRunTime	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.24
ax1240sCriticalAccumRunTime	1.3.6.1.4.1.21839.2.2.13.2.1.2.1.25
ax1240sTemperatureStatusTable	1.3.6.1.4.1.21839.2.2.13.2.1.3
ax1240sTemperatureStatusEntry	1.3.6.1.4.1.21839.2.2.13.2.1.3.1

MIB name	Object ID
ax1240sTemperatureStatusIndex	1.3.6.1.4.1.21839.2.2.13.2.1.3.1.1
ax1240sTemperatureStatusDescr	1.3.6.1.4.1.21839.2.2.13.2.1.3.1.2
ax1240sTemperatureStatusValue	1.3.6.1.4.1.21839.2.2.13.2.1.3.1.3
ax1240sTemperatureThreshold	1.3.6.1.4.1.21839.2.2.13.2.1.3.1.4
ax1240sTemperatureState	1.3.6.1.4.1.21839.2.2.13.2.1.3.1.5
ax1240sPowerUnitTable	1.3.6.1.4.1.21839.2.2.13.2.1.4
ax1240sPowerUnitEntry	1.3.6.1.4.1.21839.2.2.13.2.1.4.1
ax1240sPowerUnitIndex	1.3.6.1.4.1.21839.2.2.13.2.1.4.1.1
ax1240sPowerConnectStatus	1.3.6.1.4.1.21839.2.2.13.2.1.4.1.2
ax1240sPowerSupplyStatus	1.3.6.1.4.1.21839.2.2.13.2.1.4.1.3
ax1240sFanTable	1.3.6.1.4.1.21839.2.2.13.2.1.5
ax1240sFanEntry	1.3.6.1.4.1.21839.2.2.13.2.1.5.1
ax1240sFanIndex	1.3.6.1.4.1.21839.2.2.13.2.1.5.1.1
ax1240sFanStatus	1.3.6.1.4.1.21839.2.2.13.2.1.5.1.2
ax1240sPhysLine	1.3.6.1.4.1.21839.2.2.13.2.2
ax1240sPhysLineTable	1.3.6.1.4.1.21839.2.2.13.2.2.1
ax1240sPhysLineEntry	1.3.6.1.4.1.21839.2.2.13.2.2.1.1
ax1240sPhysLineIndex	1.3.6.1.4.1.21839.2.2.13.2.2.1.1.1
ax1240sPhysLineConnectorType	1.3.6.1.4.1.21839.2.2.13.2.2.1.1.2
ax1240sPhysLineOperStatus	1.3.6.1.4.1.21839.2.2.13.2.2.1.1.3
ax1240sPhysLineIfIndexNumber	1.3.6.1.4.1.21839.2.2.13.2.2.1.1.4
ax1240sPhysLineTransceiverStatus	1.3.6.1.4.1.21839.2.2.13.2.2.1.1.5
ax1240sDeviceError	1.3.6.1.4.1.21839.2.2.13.2.3
ax1240sMemoryError	1.3.6.1.4.1.21839.2.2.13.2.3.1

A.1.18 ax1240sAuth group [AX1240S]

The MIB names in the ax1240sAuth group and their corresponding object ID values are given below.

Table A-18 MIB names in the ax1240sAuth group and their corresponding object ID values

MIB name	Object ID
ax1240sAuth	1.3.6.1.4.1.21839.2.2.13.10
ax1240sAuthInfo	1.3.6.1.4.1.21839.2.2.13.10.1
ax1240sAuthSysName	1.3.6.1.4.1.21839.2.2.13.10.1.1
ax1240sAuthIfIndex	1.3.6.1.4.1.21839.2.2.13.10.1.2
ax1240sAuthSupplicantMac	1.3.6.1.4.1.21839.2.2.13.10.1.3
ax1240sAuthMessage	1.3.6.1.4.1.21839.2.2.13.10.1.4

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