Management Information Base Reference

AX Series Advanced Traffic Manager

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Headquarters

A10 Networks, Inc.
3 West Plumeria Dr.
San Jose, CA 95134

Tel: 408 325 8668 (main)
Tel: 408 325 8676 (support)
Fax: 408 325 8666

www.a10networks.com

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About This Document

This document describes features of the A10 Networks AX Series.

FIGURE 1 AX 5630 (front panel view)

Information is available for AX Series products in the following documents. These documents are included on the documentation CD shipped with your AX Series product, and also are available on the A10 Networks support site:

- *AX Series Installation Guides*
- *AX Series LOM Reference*
- *AX Series System Configuration and Administration Guide*
- *AX Series IPv4-to-IPv6 Transition Solutions Guide*
- *AX Series Traffic Logging Guide for IPv6 Migration*
- *AX Series GUI Reference*
- *AX Series CLI Reference*
- *AX Series MIB Reference*

Make sure to use the basic deployment instructions in the *AX Series Installation Guide* for your AX model, and in the *AX Series System Configuration and Administration Guide*. Also make sure to set up your device's Lights Out Management (LOM) interface, if applicable.

Note: Some guides include GUI configuration examples. In these examples, some GUI pages may have new options that are not shown in the example screen images. In these cases, the new options are not applicable to the

examples. For information about any option in the GUI, see the *AX Series GUI Reference* or the GUI online help.

Audience

This document is intended for use by network architects for determining applicability and planning implementation, and for system administrators for provision and maintenance of A10 Networks AX Series products.

Documentation Updates

Updates to these documents are published periodically to the A10 Networks support site, on an updated documentation CD (posted as a zip archive). To access the latest version, please log onto your A10 support account and navigate to the following page: Support > AX Series > Technical Library.

http://www.a10networks.com

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http://www.a10networks.com/adc/

Introduction

This document describes the AX Series proprietary Management Information Base (MIB). The AX MIB consists of the following groups:

- axSystem – Provides system-level information about the AX device, such as the installed software versions, the serial number, and current CPU utilization. See "AX MIB Objects: axSystem Group" on page 27.
- axLogging – Provides configuration information about system logging. See "AX MIB Objects: axLogging Group" on page 43.
- axApp – Provides configuration and operational information for AX features. See the following:
  - LSN – See "AX MIB Objects: axApp Group—Large Scale NAT Objects" on page 49.
  - NAT64 – See "AX MIB Objects: axApp Group—NAT64 Objects" on page 61.
  - DS-Lite – See "AX MIB Objects: axApp Group—DS-Lite Objects" on page 67.
  - Server resources – See "AX MIB Objects: axApp Group" on page 73.
  - High Availability (HA) – See "AX MIB Objects: High Availability Group" on page 151.
  - Notification objects – See "AX MIB Objects: axNotification" on page 155.

MIB Access

SNMP access to the AX device is read-only. You can use SNMP managers to retrieve information using GET or GET NEXT requests. SET requests are not supported.

SNMP RFCs supported

The AX device supports the following SNMP-related RFCs:

- RFC 1157, A Simple Network Management Protocol (SNMP)
- RFC 1213, Management Information Base for Network Management of TCP/IP-based internets: MIB-II

  The sysService object returns a value that indicates the set of services the AX device offers. For the AX device, the sysService object always returns the following value: 76

  This value indicates that the AX device offers the following services:

  - datalink/subnetwork – 0x2
  - internet – 0x4
  - end-to-end – 0x8
  - applications – 0x40

  For information about how the value is calculated, see the RFC.
- RFC 1850, OSPF Version 2 Management Information Base
- draft-ietf-ospf-ospfv3-mib-08, OSPF Version 3 Management Information Base
- RFC 1901, Introduction to Community-based SNMPv2
- RFC 2233, The Interfaces Group MIB using SMIv2
- RFC 2576, Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework
- 2790, Host Resources MIB

  The following subtrees are supported:

  - hrSystem: .1.3.6.1.2.1.25.1
  - hrStorage: .1.3.6.1.2.1.25.2
  - hrDeviceTable: .1.3.6.1.2.1.25.3.2
  - hrProcessorTable: .1.3.6.1.2.1.25.3.3
- RFC 3410, Introduction and Applicability Statements for Internet Standard Management Framework
- RFC 3411, An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks
- RFC 3412, Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)
- RFC 3413, Simple Network Management Protocol (SNMP) Applications

- RFC 3414, User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)
- RFC 3415, View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)
- RFC 3635, Definitions of Managed Objects for the Ethernet-like Interface Types
- RFC 4001, Textual Conventions for Internet Network Addresses. The following values for IP address type are supported:
  - 0 – Unknown
  - 1 – IPv4
  - 2 – IPv6
- RFC 4293, Management Information Base for the Internet Protocol. The following tables are supported:
  - Ipv4InterfaceTable
  - Ipv6InterfaceTable
  - IpAddrTable
  - Ipv6AddrTable

Note Regarding ifIndex Table Support

The ifInUnknownProtos and ifOutLen objects in the ifIndex table are not implemented on AX interfaces and always return value 0. Likewise, the ifSpecific object is not present and always returns “0.0”.

AX MIB Files

The AX MIB consists of the following files:

- A10-COMMON-MIB.txt – Contains common MIB definitions for A10 Networks, including the A10 enterprise object identifier (OID) and the OIDs for all A10 products.
- A10-AX-MIB.txt – AX device MIB definitions, including the AX SNMP notification node.
- A10-AX-NOTIFICATIONS-V2C.txt – SNMPv2c trap definitions for the AX device.
- A10-AX-TRAPS-V1.txt – SNMPv1 trap definitions for the AX device.

The first two files are required. Depending on your SNMP version (v1 or v2c), use one or the other of the last two files.

- If you are using an SNMPv2c manager, use the following MIB files:
  - A10-COMMON-MIB.txt
  - A10-AX-MIB.txt
  - A10-AX-NOTIFICATIONS-V2C.txt
- If you are using an SNMPv1 manager, use the following MIB files:
  - A10-COMMON-MIB.txt
  - A10-AX-MIB.txt
  - A10-AX-TRAPS-V1.txt

AX MIB Objects: axSystem Group

This chapter describes the MIB objects in the axSystem group.

axSysVersion Objects

axSysPrimaryVersionOnDisk

Description Get the version of the image stored in the primary image area of the hard disk.

OID .1.3.6.1.4.1.22610.2.4.1.1.1

Example

```
axSysPrimaryVersionOnDisk.0:-->2.0.0(build: 110)
```

axSysSecondaryVersionOnDisk

Description Get the version of the image stored in the secondary image area of the hard disk.

OID .1.3.6.1.4.1.22610.2.4.1.1.2

Example

```
axSysSecondaryVersionOnDisk.0:-->2.0.0(build: 107)
```

axSysPrimaryVersionOnCF

Description Get the version of the image stored in the primary image area of the compact flash.

OID .1.3.6.1.4.1.22610.2.4.1.1.3

Example

```
axSysPrimaryVersionOnCF.0:-->2.0.0(build: 107)
```

axSysSecondaryVersionOnCF

Description Get the version of the image stored in the secondary image area of the compact flash.

OID .1.3.6.1.4.1.22610.2.4.1.1.4

Example

```
axSysSecondaryVersionOnCF.0:-->1.2.2(build: 100)
```

axSysMemory Objects

axSysMemoryTotal

Description Get the total amount of memory on the system. Memory is measured in Kilobytes (Kb).

OID .1.3.6.1.4.1.22610.2.4.1.2.1

Example

```
axSysMemoryTotal.0:-->2072432
```

axSysMemoryUsage

Description Get the amount of memory that is currently in use. Memory is measured in Kb.

OID .1.3.6.1.4.1.22610.2.4.1.2.2

Example

```
axSysMemoryUsage.0:-->1176400
```

axSysCpu Objects

axSysCpuNumber

Description Get the number of CPUs the AX device has.

OID .1.3.6.1.4.1.22610.2.4.1.3.1

Example

```
axSysCpuNumber.0:-->3
```

axSysCpuTable

Description Get the CPU table, which contains usage information for each CPU.

OID .1.3.6.1.4.1.22610.2.4.1.3.2

Table 1 describes the fields in this table.

TABLE 1 axSysCpuTable fields

Field	Description
axSysCpuIndex .1.1	CPU index. (This object is not accessible.)
axSysCpuUsage .1.2	Current utilization of the CPU, measured as a percentage. The measurement is taken at the time the AX device receives the GET request. The value is a string value.
axSysCpuUsageValue .1.3	Current utilization of the CPU, measured as a percentage. The measurement is taken at the time the AX device receives the GET request. The value is a 32-bit integer.

Example

```
SNMPv2-SMI::enterprises.22610.2.4.1.3.1.0 = INTEGER: 4
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.2.1 = STRING: "0"
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.2.2 = STRING: "0"
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.2.3 = STRING: "1"
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.2.4 = STRING: "0"
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.3.1 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.3.2 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.3.3 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.1.3.2.1.3.4 = INTEGER: 0
```

axSysAverageCpuUsage

Description Gets the average CPU utilization over the last 5 seconds.

OID `.1.3.6.1.4.1.22610.2.4.1.3.3`

axSysAverageControlCpuUsage

Description Gets the average control CPU utilization over the last 5 seconds.

OID `.1.3.6.1.4.1.22610.2.4.1.3.4`

axSysAverageDataCpuUsage

Description Gets the average data CPU utilization over the last 5 seconds.

OID `.1.3.6.1.4.1.22610.2.4.1.3.5`

axSysCpuUsageTable

Description Get the CPU usage table, which contains usage information for each CPU over the following time intervals:

- Previous 1 second
- Previous 5 seconds
- Previous 10 seconds
- Previous 30 seconds
- Previous 60 seconds

OID `.1.3.6.1.4.1.22610.2.4.1.3.6`

Table 1 describes the fields in this table.

TABLE 2 axSysCpuUsageTable fields

Field	Description
axSysCpuUsageEntry 1.3	Entry in the CPU usage table.
axSysCpuIndexInUsage	CPU number. CPU 0 is the control CPU. The other CPUs, numbered 1 to *n*, are data CPUs. The highest value for *n* depends on how many data CPUs the AX device has, which differs depending on the AX model.

TABLE 2 axSysCpuUsageTable fields (Continued)

Field	Description
axSysCpuUsagePeriodIndex	Sampling period: • 1 – Previous 1 second • 2 – Previous 5 seconds • 3 – Previous 10 seconds • 4 – Previous 30 seconds • 5 – Previous 60 seconds
axSysCpuUsageValueAtPeriod	Utilization of the CPU, within the usage period. The utilization is measured as a percentage, and displayed as an integer.

Example

```
#snmpwalk -v 2c -c public 192.168.1.239 .1.3.6.1.4.1.22610.2.4.1.3.6.1.3

SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.0.1 = INTEGER: 4
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.0.2 = INTEGER: 8
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.0.3 = INTEGER: 5
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.0.4 = INTEGER: 4
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.0.5 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.1.1 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.1.2 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.1.3 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.1.4 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.1.5 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.2.1 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.2.2 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.2.3 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.2.4 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.2.5 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.3.1 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.3.2 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.3.3 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.3.4 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.1.3.6.1.3.3.5 = INTEGER: 0
```

axSysDisk Objects

axSysDiskTotalSpace

Description Get the total amount of space on the AX hard disk. The space is measured in Megabytes (MB).

OID .1.3.6.1.4.1.22610.2.4.1.4.1

Example

```
axSysDiskTotalSpace.0:-->76801
```

axSysDiskFreeSpace

Description Get the amount of hard disk space that is currently free (unused). The space is measured in MB.

OID .1.3.6.1.4.1.22610.2.4.1.4.2

Example

```
axSysDiskFreeSpace.0:-->73867
```

axSysHwInfo Objects

axSysHwPhySystemTemp

Description Get the physical system temperature. The temperature is measured in Celsius.

OID .1.3.6.1.4.1.22610.2.4.1.5.1

axSysHwFan1Speed

Description Get the current speed of fan number 1. The speed is measured in rotations per minute (RPMs).

Note: This object applies only to the following models: AX 1000, AX 2000, AX 2100, AX 2200, AX 3100, and AX 3200. For other models, see "axSysFanStatusTable" on page 35.

OID .1.3.6.1.4.1.22610.2.4.1.5.2

Example

```
axSysHwFan1Speed.0:-->2596
```

axSysHwFan2Speed

Description Get the current speed of fan number 2. The speed is measured in RPMs.

Note: This object applies only to the following models: AX 1000, AX 2000, AX 2100, AX 2200, AX 3100, and AX 3200. For other models, see "axSysFanStatusTable" on page 35.

OID .1.3.6.1.4.1.22610.2.4.1.5.3

Example

```
axSysHwFan2Speed.0:-->2518
```

axSysHwFan3Speed

Description Get the current speed of fan number 3. The speed is measured in RPMs.

Note: This object applies only to the following models: AX 1000, AX 2000, AX 2100, AX 2200, AX 3100, and AX 3200. For other models, see "axSysFanStatusTable" on page 35.

OID .1.3.6.1.4.1.22610.2.4.1.5.4

Example

```
axSysHwFan3Speed.0:-->2518
```

axSysLowerOrLeftPowerSupplyStatus

Description Get the operational status of the lower power supply.

Note: This object gets the lower supply status for AX 2000, AX 2100, AX 2200, AX 3100, and AX 3200, AX 5100, AX 5200, and AX 5630 or the left power supply status for AX 1000, AX 2500, AX 2600, and AX 3000. For other models, see "axSystemPowerSupplyFailure" on page 162.

OID .1.3.6.1.4.1.22610.2.4.1.5.7

This object can have one of the following values:

- 0 – Off
- 1 – On
- -1 – Unknown

Example

```
axSysLowerPowerSupplyStatus.0:-->on(1)
```

axSysUpperOrRightPowerSupplyStatus

Description Get the operational status of the upper power supply.

Note: This object gets the upper power supply status for AX 2000, AX 2100, AX 2200, AX 3100, AX 3200, AX 5100, AX 5200, and AX 5630 or the right power supply status for AX 2500, AX 2600, and AX 3000. For other models, see "axSystemPowerSupplyFailure" on page 162.

OID .1.3.6.1.4.1.22610.2.4.1.5.8

This object can have one of the following values:

- 0 – Off
- 1 – On
- -1 – Unknown

Example

```
axSysUpperPowerSupplyStatus.0:-->on(1)
```

axSysFanStatusTable

Get the fan status table.

Note: This table applies only to the following models: AX 1030, AX 2500, AX 2600, AX 3000, AX 3200-12, AX 3400, AX 3530, AX 5100, AX 5200, AX 5200-11, AX 5630, and AX 3030.

Description Table 3 describes the fields in this table.

TABLE 3 Table fields

Field	Description
axFanIndex 1.1	Fan number.
axFanName 1.2	Fan name.
axFanStatus 1.3	Fan status: • 0 – Failed • 4 – OK-fixed/high • 5 – OK-low/med • 6 – OK-med/med • 7 – OK-med/high • -2 – Not ready • -1 – Unknown
axFanSpeed 1.4	Fan speed.

OID `.1.3.6.1.4.1.22610.2.4.1.5.9`

axSysInfo Objects

axSysStartupMode

Description

Get the startup mode configured on the AX device. The startup mode specifies the image location from which the AX device will attempt to boot. The image location includes the physical medium (hard disk or compact flash) and the image area (primary or secondary).

OID

.1.3.6.1.4.1.22610.2.4.1.6.1

This object can have one of the following values:

- 1 – Primary hard disk
- 2 – Secondary hard disk
- 3 – Primary compact flash
- 4 – Secondary compact flash
- 0 – Unknown

Example

```
axSysStartupMode.0:-->PrimaryDisk(1)
```

axSysSerialNumber

Description

Get the serial number of the AX device.

OID

.1.3.6.1.4.1.22610.2.4.1.6.2

Example

```
axSysSerialNumber.0:-->AX20231101234567
```

axSysFirmwareVersion

Description Get the firmware version on the AX device.

OID .1.3.6.1.4.1.22610.2.4.1.6.3

Note: Model AX2000 does not have a firmware version. On this model, the value is always “N/A”.

Example

```
axSysFirmwareVersion.0:-->7.5
```

axSysAFleXEngineVersion

Description Get the version of the aFleX engine on the AX device.

OID .1.3.6.1.4.1.22610.2.4.1.6.4

Example

```
axSysAFleXEngineVersion.0:-->1.1.0
```

axNetwork Objects

axInterfaces Objects

axInterfaceCount

Description Get the total number of interface entries in the axInterface table.

OID .1.3.6.1.4.1.22610.2.4.1.7.1.1.1

axInterfaceTable

Description Get the AX interface table.

Table 4 describes the fields in this table.

TABLE 4 axInterfaceTable fields

Field	Description
axInterfaceIndex 1.1	Interface number.
axInterfaceName 1.2	Name of the interface.
axInterfaceMediaMaxSpeed 1.3	Highest supported speed on the interface, measured in mega-bits per second (Mbps).
axInterfaceMediaMaxDuplex 1.4	Best mode (duplex, half-duplex, and so on) supported on the interface: • 0 – None • 1 – Half • 2 – Full • 3 – Auto
axInterfaceMediaActiveSpeed 1.5	Current active speed on the interface.
axInterfaceMediaActiveDuplex 1.6	Current mode on the interface: • 0 – None • 1 – Half • 2 – Full • 3 – Auto
axInterfaceMacAddr 1.7	MAC address of the interface.
axInterfaceMtu 1.8	Maximum transmission unit (MTU) size of datagrams that can be sent or received on the interface.
axInterfaceAdminStatus 1.9	Administrative state of the interface: • 0 – False (disabled) • 1 – True (enabled)
axInterfaceStatus 1.10	Link state of the interface: • 0 – Up • 1 – Down • 2 – Disabled
axInterfaceAlias 1.11	Alias name of the interface, if configured.
axInterfaceFlowCtrlAdminStatus 1.12	Administrative state of flow control on the interface: • 0 – Disabled • 1 – Enabled
axInterfaceFlowCtrlOperStatus 1.13	Operational state of flow control on the interface: • 0 – False (disabled) • 1 – True (enabled)

OID .1.3.6.1.4.1.22610.2.4.1.7.1.1.2

axInterfaceStatTable

Description Get the AX interface statistics table.

Table 5 describes the fields in this table.

TABLE 5 axInterfaceStatTable fields

Field	Description
axInterfaceStatIndex 1.1	Interface number.
axInterfaceStatPktsIn 1.2	Number of packets received on the interface.
axInterfaceStatBytesIn 1.3	Number of bytes received on the interface.
axInterfaceStatPktsOut 1.4	Number of packets transmitted out the interface.
axInterfaceStatBytesOut 1.5	Number of bytes transmitted out the interface.
axInterfaceStatMcastIn 1.6	Number of multicast packets received on the interface.
axInterfaceStatMcastOut 1.7	Number of multicast packets transmitted out the interface.
axInterfaceStatErrorsIn 1.8	Number of packets received on the interface that were under-sized, oversized, or had FCS errors.
axInterfaceStatErrorsOut 1.9	Number of excessive collisions. This counter is incremented for each frame that experiences 16 collisions during trans-mission and that is therefore aborted.
axInterfaceStatDropsIn 1.10	Number of packets dropped on ingress, for various reasons.
axInterfaceStatDropsOut 1.11	Number of packets aged out or with excessive transmission delays due to multiple deferrals.
axInterfaceStatCollisions 1.12	Number of collisions on the interface. This counter is incre-mented by the number of collisions experienced during transmissions of a frame.
axInterfaceStatBitsPerSecIn 1.13	Input rate in bits per second, during the last 300 seconds.
axInterfaceStatPktsPerSecIn 1.14	Input rate in packets per second, during the last 300 seconds.
axInterfaceStatUtilPercentIn 1.15	Input utilization as a percentage, over the last 300 seconds.

TABLE 5 axInterfaceStatTable fields (Continued)

Field	Description
axInterfaceStatBitsPerSecOut 1.16	Output rate in bits per second, during the last 300 seconds.
axInterfaceStatPktsPerSecOut 1.17	Output rate in packets per second, during the last 300 seconds.
axInterfaceStatUtilPercentOut 1.18	Output utilization as a percentage, over the last 300 seconds.

OID .1.3.6.1.4.1.22610.2.4.1.7.1.2.1

axVlans Objects

axVlanCfgTable

Description Get the AX VLAN table.

Table 6 describes the fields in this table.

TABLE 6 axVlanCfgTable fields

Field	Description
axVlanId 1.1	VLAN ID.
axVlanName 1.2	VLAN name.
axVlanRouterInterface 1.3	Virtual Ethernet (VE) interface number, if configured. If the value is 0, no VE is configured.

OID .1.3.6.1.4.1.22610.2.4.1.7.2.1.1

axVlanCfgMemberTable

Description Get the VLAN member table.

Table 7 describes the fields in this table.

TABLE 7 axVlanCfgMemberTable fields

Field	Description
axVlanMemberVlanId 1.1	VLAN ID.
axVlanMemberIntfId 1.2	Interface ID.

TABLE 7 axVlanCfgMemberTable fields (Continued)

Field	Description
axVlanMemberTagged 1.3	Indicates whether the interface is tagged: • 0 – False (disabled) • 1 – True (enabled)

OID .1.3.6.1.4.1.22610.2.4.1.7.2.1.2

AX MIB Objects: axLogging Group

This chapter describes the MIB objects in the axLogging group.

axLogBufferSize

Description Get the size of the local log buffer. The size indicates the maximum number of messages the buffer can hold.

OID .1.3.6.1.4.1.22610.2.4.2.1

Example

```
axLogBufferSize.0:-->30000
```

axLogBufferPri

Description Get the logging priority for the local log buffer. Log messages with severity levels at or above the priority are sent to the local log buffer. Log messages with severity levels lower than the priority are not sent to the local log buffer.

OID .1.3.6.1.4.1.22610.2.4.2.2

This object can have one of the following values:

- 0 – Emergency
- 1 – Alert
- 2 – Critical
- 3 – Error
- 4 – Warning
- 5 – Notice
- 6 – Info
- 7 – Debug
- -1 – NotDefined (disabled)

Example

```
axLogBufferPri.0:-->Debug(7)
```

axLogConsolePri

Description

Get the logging priority for log messages displayed in console sessions. Log messages with severity levels at or above the priority are displayed. Log messages with severity levels lower than the priority are not displayed.

OID

`.1.3.6.1.4.1.22610.2.4.2.3`

This object can have one of the following values:

- 0 – Emergency
- 1 – Alert
- 2 – Critical
- 3 – Error
- 4 – Warning
- 5 – Notice
- 6 – Info
- 7 – Debug
- -1 – NotDefined (disabled)

Example

```
axLogConsolePri.0:-->Error(3)
```

axLogEmailPri

Description

Get the logging priority for emailed log messages. Log messages with severity levels at or above the priority are sent by email. Log messages with severity levels lower than the priority are not sent by email.

OID

`.1.3.6.1.4.1.22610.2.4.2.4`

This object can have one of the following values:

- 0 – Emergency
- 1 – Alert
- 2 – Critical
- 3 – Error
- 4 – Warning
- 5 – Notice

- 6 – Info
- 7 – Debug
- -1 – NotDefined (disabled)

Example

```
axLogEmailPri.0:-->Critical(2)
```

axLogEmailAddr

Description Get the email address(es) to which log messages can be sent.

OID .1.3.6.1.4.1.22610.2.4.2.5

Example

```
axLogEmailAddr.0:-->admin@example.com
```

axLogSyslogPri

Description Get the logging priority for log messages sent to external log servers. Log messages with severity levels at or above the priority are sent to external log servers. Log messages with severity levels lower than the priority are not to sent to external log servers.

OID .1.3.6.1.4.1.22610.2.4.2.8

This object can have one of the following values:

- 0 – Emergency
- 1 – Alert
- 2 – Critical
- 3 – Error
- 4 – Warning
- 5 – Notice
- 6 – Info
- 7 – Debug
- -1 – NotDefined (disabled)

Example

```
axLogSyslogPri.0:-->Debug(7)
```

axLogSyslogHostTable

Description Get the syslog host table, which contains the external syslog servers.

OID .1.3.6.1.4.1.22610.2.4.2.9

Table 8 describes the fields in this table.

TABLE 8 axLogSyslogHostTable fields

Field	Description
axLogSyslogHostIndex .1.1	Table entry number.
axLogSyslogHost .1.2	External syslog server's hostname or IP address.

Example

```
axLogSyslogHost.1:-->1.0.6.134
axLogSyslogHost.2:-->AXLogHostForTest
```

axLogSyslogPort

Description Get the protocol port number to which the AX device sends log messages on external syslog servers.

OID .1.3.6.1.4.1.22610.2.4.2.10

Example

```
axLogSyslogPort.0:-->514
```

axLogMonitorPri

Description

Get the logging priority for log messages displayed in Telnet or SSH sessions. Log messages with severity levels at or above the priority are displayed. Log messages with severity levels lower than the priority are not displayed.

OID

`.1.3.6.1.4.1.22610.2.4.2.11`

This object can have one of the following values:

- 0 – Emergency
- 1 – Alert
- 2 – Critical
- 3 – Error
- 4 – Warning
- 5 – Notice
- 6 – Info
- 7 – Debug
- -1 – NotDefined (disabled)

Example

```
axLogMonitorPri.0:-->7
```

axSyslogTrap

Description

Syslog messages sent through SNMP traps.

OID

`.1.3.6.1.4.1.22610.2.4.2.100.1`

axSyslogModuleName

Description

Module name sent with the syslog message.

OID

`.1.3.6.1.4.1.22610.2.4.2.101.1`

axSyslogPriority

Description Syslog message priority.

OID .1.3.6.1.4.1.22610.2.4.2.101.2

This object can have one of the following values:

- 0 – Emergency
- 1 – Alert
- 2 – Critical
- 3 – Error
- 4 – Warning
- 5 – Notice
- 6 – Info
- 7 – Debug

axSyslogMsg

Description Syslog message.

OID .1.3.6.1.4.1.22610.2.4.2.101.3

AX MIB Objects: axApp Group—Large Scale NAT Objects

This chapter describes the MIB objects in the axIpNatLsnStats subgroup of the axIpNatStats group, under axApp. The axIpNatLsnStats subgroup contains objects for Large Scale NAT (LSN).

axIpNatLsnGobalStats Objects

axIpNatLsnTotalUserQuotaSessions

Description Get the total number of LSN user sessions.

OID .1.3.6.1.4.1.22610.2.4.3.18.4.1.1

axIpNatLsnTotalIpAddrTranslated

Description Get the total number of global (translated) IP addresses that have at least one user.

OID .1.3.6.1.4.1.22610.2.4.3.18.4.1.2

axIpNatLsnTotalFullConeSessions

Description Get the total number of full-cone sessions.

OID .1.3.6.1.4.1.22610.2.4.3.18.4.1.3

axIpNatLsnTrafficStats

Description Get LSN traffic statistics.

Table 9 describes the fields in this table.

TABLE 9 axIpNatLsnTrafficStats fields

Field	Description
axIpNatLsnTrafficFullConeSessionCreated .1	Total number of full-cone sessions created.
axIpNatLsnTrafficFullConeSessionFreed .2	Total number of full-cone sessions freed.
axIpNatLsnTrafficFailsInFullConeSessionCre-ation .3	Total number of times creation of a full-cone session failed.
axIpNatLsnTrafficHairpinSessionCreated .4	Total number of hairpin sessions created.
axIpNatLsnTrafficEndpointIndepMapMatch .5	Total number of endpoint-independent mapping matches.
axIpNatLsnTrafficEndpointIndepFilterMatch .6	Total number of endpoint-independent filtering matches.
axIpNatLsnTrafficUserQuotasCreated .7	Total number of user-quota sessions created. This includes active user-quota sessions and freed user-quota sessions.
axIpNatLsnTrafficUserQuotasFreed .8	Total number of user quotas freed.
axIpNatLsnTrafficFailsInUserQuotasCreation .9	Total number of times creation of a user quota session failed.
axIpNatLsnTrafficIcmpUserQuotasExceeded .10	Total number of ICMP user quotas exceeded.
axIpNatLsnTrafficUdpUserQuotasExceeded .11	Total number of UDP user quotas exceeded.
axIpNatLsnTrafficTcpUserQuotasExceeded .12	Total number of TCP user quotas exceeded.
axIpNatLsnTrafficExtendedUserQuotasMatch .13	Total number of extended user-quota matches.
axIpNatLsnTrafficExtendedUserQuotasExceeded .14	Total number of extended user quotas exceeded.
.axIpNatLsnTrafficNatPortUnavailable .15	Total number of time a NAT port was unavailable.
axIpNatLsnTrafficNewUserResourceUnavailable .16	Total number of times NAT resources were unavailable for new users.

OID .1.3.6.1.4.1.22610.2.4.3.18.4.1.4

axIpNatLsnSessionStats

Description Get LSN session statistics.

Table 10 describes the fields in this table.

TABLE 10 axIpNatLsnSessionStats fields

Field	Description
axIpNatLsnSessionDataSessionsUsed .1	Number of used data sessions.
axIpNatLsnSessionDataSessionsFree .2	Number of freed data sessions.
axIpNatLsnSessionSmpSessionsUsed .3	Number of used SMP sessions.
axIpNatLsnSessionSmpSessionsFree .4	Number of freed SMP sessions.

OID .1.3.6.1.4.1.22610.2.4.3.18.4.1.5

axIpNatLsnNatPortUsageStats

Description Get LSN port availability.

Table 11 describes the fields in this table.

TABLE 11 axIpNatLsnNatPortUsageStats fields

Field	Description
axIpNatLsnNatPortTcpNatPortUsed .1	Number of used TCP NAT ports.
axIpNatLsnNatPortTcpNatPortFree .2	Number of freed TCP NAT ports.
axIpNatLsnNatPortUdpNatPortUsed .3	Number of used UDP NAT ports.
axIpNatLsnNatPortUdpNatPortFree .4	Number of freed UDP NAT ports.

OID .1.3.6.1.4.1.22610.2.4.3.18.4.1.6

axIpNatLsnTop5PrivateIpAddrTotSessions Objects

axIpNatLsnTop5PrivateIpAddrTotSessionTable

Description Get information for the top 5 users with the most sessions (TCP, UDP, and ICMP combined).

Table 12 describes the fields in this table.

TABLE 12 axIpNatLsnTop5PrivateIpAddrTotSessionTable fields

Field	Description
axIpNatLsnTop5PrivateIpAddr .1.1	Internal IP address.
axIpNatLsnTop5PrivateIpAddrTotNumSessions .1.2	Total number of sessions for this address.
axIpNatLsnTop5PrivateIpAddrGlobalIpAddr .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.2.1`

axIpNatLsnTop5PrivateIpAddrTotTcpPorts Objects

axIpNatLsnTop5PrivateIpAddrTotTcpPortTable

Description Get the top 5 users' internal IPs and total number of TCP sessions (ports).

Table 13 describes the fields in this table.

TABLE 13 axIpNatLsnTop5PrivateIpAddrTotTcpPortTable fields

Field	Description
axIpNatLsnTop5PrivateIpAddrInTcpPort .1.1	Internal IP address.
axIpNatLsnTop5PrivateIpAddrTotNumTcpPorts .1.2	Total number of TCP sessions for this address.
axIpNatLsnTop5PrivateIpAddrGlobalIpAddrInTcpPort .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.3.1`

axIpNatLsnTop5PrivateIpAddrTotUdpPorts Objects

axIpNatLsnTop5PrivateIpAddrTotUdpPortTable

Description

Get the top 5 LSN internal IP addresses and total number of UDP sessions (ports).

Table 14 describes the fields in this table.

TABLE 14 axIpNatLsnTop5PrivateIpAddrTotUdpPortTable fields

Field	Description
axIpNatLsnTop5PrivateIpAddrInUdpPort .1.1	Internal IP address.
axIpNatLsnTop5PrivateIpAddrTotNumUdpPorts .1.2	Total number of UDP sessions for this address.
axIpNatLsnTop5PrivateIpAddrGlobalIpAddrInUdpPort .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.4.1`

axIpNatLsnTop5PrivateIpAddrTotIcmpPorts Objects

axIpNatLsnTop5PrivateIpAddrTotIcmpPortTable

Get the top 5 LSN internal IP addresses and total number of ICMP sessions (ports).

Table 15 describes the fields in this table.

TABLE 15 axIpNatLsnTop5PrivateIpAddrTotIcmpPortTable fields

Field	Description
axIpNatLsnTop5PrivateIpAddrInIcmpPort .1.1	Internal IP address.
axIpNatLsnTop5PrivateIpAddrTotNumIcmpPorts .1.2	Total number of ICMP sessions for this address.
axIpNatLsnTop5PrivateIpAddrGlobalIpAddrInIcmpPort .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.5.1`

axIpNatLsnTop5UserPrivateIpAddrTotSessions Objects

axIpNatLsnTop5UserPrivateIpAddrTotSessionTable

Description

Get the top 5 users of sessions (TCP, UDP, and ICMP combined). The request looks up the global LSN pool address that has the most used ports (TCP, UDP, and ICMP combined), then finds the top 5 users of sessions on the pool's addresses.

Table 16 describes the fields in this table.

TABLE 16 axIpNatLsnTop5UserPrivateIpAddrTotSessionTable fields

Field	Description
axIpNatLsnTop5UserPrivateIpAddr .1.1	Internal IP address.

TABLE 16 axIpNatLsnTop5UserPrivateIpAddrTotSessionTable fields (Continued)

Field	Description
axIpNatLsnTop5UserPrivateIpAddrTotNumSessions .1.2	Total number of TCP, UDP, and ICMP sessions for this user.
axIpNatLsnTop5UserPrivateIpAddrGlobalIpAddr .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.6.1`

axIpNatLsnTop5UserPrivateIpAddrTotTcpSessions Objects

axIpNatLsnTop5UserPrivateIpAddrTotTcpSessionTable

Description

Get the top 5 users of TCP sessions. The request looks up the global LSN pool address that has the most used ports (TCP, UDP, and ICMP combined), then finds the top 5 users of TCP sessions on the pool's addresses.

Table 17 describes the fields in this table.

TABLE 17 axIpNatLsnTop5UserPrivateIpAddrTotTcpSessionTable fields

Field	Description
.axIpNatLsnTop5UserPrivateIpAddrInTcp .1.1	Internal IP address.
axIpNatLsnTop5UserPrivateIpAddrTotNumTcpSessions .1.2	Total number of TCP sessions for this IP address.
axIpNatLsnTop5UserPrivateIpAddrGlobalIpAddrInTcp .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.7.1`

axIpNatLsnTop5UserPrivateIpAddrTotUdpSessions Objects

axIpNatLsnTop5UserPrivateIpAddrTotUdpSessionTable

Description

Get the top 5 users of UDP sessions. The request looks up the global LSN pool address that has the most used ports (TCP, UDP, and ICMP combined), then finds the top 5 users of UDP sessions on the pool's addresses.

Table 18 describes the fields in this table.

TABLE 18 axIpNatLsnTop5UserPrivateIpAddrTotUdpSessionTable fields

Field	Description
..axIpNatLsnTop5UserPrivateIpAddrInUdp .1.1	Internal IP address.
axIpNatLsnTop5UserPrivateIpAddrTotNumUdpSessions .1.2	Total number of UDP sessions for this IP address.
axIpNatLsnTop5UserPrivateIpAddrGlobalIpAddrInUdp .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.8.1`

axIpNatLsnTop5UserPrivateIpAddrTotIcmpSessions Objects

axIpNatLsnTop5UserPrivateIpAddrTotIcmpSessionTable

Description

Get the top 5 users of ICMP sessions. The request looks up the global LSN pool address that has the most used ports (TCP, UDP, and ICMP combined), then finds the top 5 users of ICMP sessions on the pool's addresses.

Table 19 describes the fields in this table.

TABLE 19 axIpNatLsnTop5UserPrivateIpAddrTotIcmpSessionTable fields

Field	Description
..axIpNatLsnTop5UserPrivateIpAddrInIcmp .1.1	Internal IP address.
axIpNatLsnTop5UserPrivateIpAddrTotNumIcmpSessions .1.2	Total number of ICMP sessions for this IP address.
axIpNatLsnTop5UserPrivateIpAddrGlobalIpAddrInIcmp .1.3	Global IP address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.9.1`

axIpNatLsnTop5GlobalPoolIpAddrTotUsers Objects

axIpNatLsnTop5GlobalPoolIpAddrTotUserTable

Description Get the top 5 LSN global pool IP addresses and total number of users..

Table 20 describes the fields in this table.

TABLE 20 axIpNatLsnTop5GlobalPoolIpAddrTotUserTable fields

Field	Description
..axIpNatLsnTop5GlobalPoolIpAddr .1.1	Global IP address.
axIpNatLsnTop5GlobalPoolIpAddrTotNumUsers .1.2	Total number of users of the global address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.10.1`

axIpNatLsnTop5GlobalPoolIpAddrTotTcpPorts Objects

axIpNatLsnTop5GlobalPoolIpAddrTotTcpPortTable

Description Get the top 5 LSN global pool IP addresses and TCP ports.

Table 21 describes the fields in this table.

TABLE 21 axIpNatLsnTop5GlobalPoolIpAddrTotTcpPortTable fields

Field	Description
..axIpNatLsnTop5GlobalPoolIpAddrInTcp .1.1	Global IP address.
axIpNatLsnTop5GlobalPoolIpAddrTotNumTcpPorts .1.2	Total number of TCP ports on the global address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.11.1`

axIpNatLsnTop5GlobalPoolIpAddrTotUdpPorts Objects

axIpNatLsnTop5GlobalPoolIpAddrTotUdpPortTable

Description Get the top 5 LSN global pool IP addresses and UDP ports.

Table 22 describes the fields in this table.

TABLE 22 axIpNatLsnTop5GlobalPoolIpAddrTotUdpPortTable fields

Field	Description
..axIpNatLsnTop5GlobalPoolIpAddrInUdp .1.1	Global IP address.
axIpNatLsnTop5GlobalPoolIpAddrTotNumUdpPorts .1.2	Total number of UDP ports on the global address.

OID `.1.3.6.1.4.1.22610.2.4.3.18.4.12.1`

axIpNatLsnAlgSipStats Objects

axIpNatLsnAlgSipStatMethodRegister

Description Get the number of SIP Register requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.1`

axIpNatLsnAlgSipStatMethodInvite

Description Get the number of SIP Invite requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.2`

axIpNatLsnAlgSipStatMethodAck

Description Get the number of SIP ACK requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.3`

axIpNatLsnAlgSipStatMethodCancel

Description Get the number of SIP Cancel requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.4`

axIpNatLsnAlgSipStatMethodBye

Description Get the number of SIP Bye requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.5`

axIpNatLsnAlgSipStatMethodOptions

Description Get the number of SIP Option requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.6`

axIpNatLsnAlgSipStatMethodPrack

Description Get the number of SIP Provisional ACK requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.7`

axIpNatLsnAlgSipStatMethodSubscribe

Description Get the number of SIP Subscribe requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.8`

axIpNatLsnAlgSipStatMethodNotify

Description Get the number of SIP Notify requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.9`

axIpNatLsnAlgSipStatMethodPublish

Description Get the number of SIP Publish requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.10`

axIpNatLsnAlgSipStatMethodInfo

Description Get the number of SIP Information requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.11`

axIpNatLsnAlgSipStatMethodRefer

Description Get the number of SIP Refer requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.12`

axIpNatLsnAlgSipStatMethodMessage

Description Get the number of SIP Message requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.13`

axIpNatLsnAlgSipStatMethodUpdate

Description Get the number of SIP Update requests.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.14`

axIpNatLsnAlgSipStatMethodUnknown

Description Get the number of SIP requests of unknown type.

Description `.1.3.6.1.4.1.22610.2.4.3.18.4.13.15`

AX MIB Objects: axApp Group—NAT64 Objects

This chapter describes the MIB objects in the axIpNatNat64Stats subgroup of the axIpNatStats group, under axApp. The axIpNatNat64Stats subgroup contains objects for NAT64.

axIpNatNat64StatsGlobal Objects

axIpNatNat64StatTotalTcpPortAlloc

Description Get the total number of TCP ports allocated for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.1

axIpNatNat64StatTotalTcpPortFreed

Description Get the total number of TCP ports freed for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.2

axIpNatNat64StatTotalUdpPortAlloc

Description Get the total number of UDP ports allocated for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.3

axIpNatNat64StatTotalUdpPortFreed

Description Get the total number of UDP ports freed for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.4

axIpNatNat64StatTotalIcmpPortAlloc

Description Get the total number of ICMP ports allocated for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.5

axIpNatNat64StatTotalIcmpPortFreed

Description Get the total number of ICMP ports freed for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.6

axIpNatNat64StatDataSessionCreated

Description Get the total number of data sessions created for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.7

axIpNatNat64StatDataSessionFreed

Description Get the total number of data sessions freed for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.8

axIpNatNat64UserQuotaCreated

Description Get the total number of user-quota sessions created for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.9

axIpNatNat64UserQuotaFreed

Description Get the total number of user-quota sessions freed for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.10

axIpNatNat64UserQuotaCreateFailed

Description Get the total number of user-quota session creation failures for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.11

axIpNatNat64StatTcpNatPortUnAvail

Description Get the number of times TCP NAT ports were unavailable for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.12

axIpNatNat64StatUdpNatPortUnAvail

Description Get the number of times UDP NAT ports were unavailable for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.13

axIpNatNat64StatIcmpNatPortUnavail

Description Get the number of times ICMP NAT ports were unavailable for NAT64.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.14

axIpNatNat64StatNewUserResourceUnAvail

Description Get the number of times resources were unavailable for new NAT64 users.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.15

axIpNatNat64StatTcpUserQuotaExceed

Description Get the number of times a NAT64 user quota for TCP was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.16

axIpNatNat64StatUdpUserQuotaExceed

Description Get the number of times a NAT64 user quota for UDP was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.17

axIpNatNat64StatIcmpUserQuotaExceed

Description Get the number of times a NAT64 user quota for ICMP was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.18

axIpNatNat64StatExtendedUserQuotaMatched

Description Get the number of times an extended NAT64 user quota was reached.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.19

axIpNatNat64StatExtendedUserQuotaExceeded

Description Get the number of times an extended NAT64 user quota was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.5.1.20

axIpNatNat64StatTcpFullConeSessionCreated

Description Get the number of times a TCP full-cone session for NAT64 was created.

Description .1.3.6.1.4.1.22610.2.4.3.18.5.1.21

axIpNatNat64StatTcpFullConeSessionFreed

Description Get the number of times a TCP full-cone session for NAT64 was freed.

Description .1.3.6.1.4.1.22610.2.4.3.18.5.1.22

axIpNatNat64StatUdpFullConeSessionCreated

Description Get the number of times a UDP full-cone session for NAT64 was created.

Description .1.3.6.1.4.1.22610.2.4.3.18.5.1.23

axIpNatNat64StatUdpFullConeSessionFreed

Description Get the number of times a UDP full-cone session for NAT64 was freed.

Description .1.3.6.1.4.1.22610.2.4.3.18.5.1.24

axIpNatNat64StatFullConeSessionFailed

Description Get the number of times creation of a full-cone session for NAT64 failed.

Description .1.3.6.1.4.1.22610.2.4.3.18.5.1.25

axIpNatNat64StatHairpinSessionCreated

Description Get the number of hairpin sessions created for NAT64.

Description .1.3.6.1.4.1.22610.2.4.3.18.5.1.26

axIpNatNat64StatSelfHairpinDrop

Description Get the number of NAT64 hairpin sessions dropped because the source and destination client were the same.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.27`

axIpNatNat64StatEndpointIndependentMapMatched

Description Get the number of times NAT64 reused the mapping assigned to a client for subsequent traffic for that client.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.28`

axIpNatNat64StatEndpointIndependentFilterMatched

Description Get number of times traffic from any source to a given mapped client was forwarded to the internal client, regardless of the endpoint.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.29`

axIpNatNat64StatEndpointDependentFilterDrop

Description Get the number of times traffic to a mapped client was dropped because endpoint-independent filtering was not enabled, and the traffic was not from the endpoint mapped to the client.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.30`

axIpNatNat64StatLayer3ForwardPackets

Description Get the number of packets forwarded at Layer 3 because the IPv6 destination address did not match the NAT64 prefix.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.31`

axIpNatNat64StatSourceAddrPrefixMatchDrop

Description Get the number of times incoming traffic matched the NAT64 prefix, but was dropped because it matched the drop action in the LSN-LID.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.32`

axIpNatNat64StatLsnLidDrop

Description Get the number of times traffic matched the drop action in the LSN LID used for NAT64, and was dropped.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.33`

axIpNatNat64StatLsnLidPassThrough

Description Get the number of times traffic matched the pass-through action in the LSN LID used for NAT64, and was passed through without being NATted.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.34`

axIpNatNat64StatNoClassListMatch

Description Get the number of times traffic did not match the LSN class list used for NAT64.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.35`

axIpNatNat64StatNatPoolMismatchDrop

Description Get the number of times traffic was dropped because it did not match the NAT pool used for NAT64.

Description `.1.3.6.1.4.1.22610.2.4.3.18.5.1.36`

AX MIB Objects: axApp Group—DS-Lite Objects

This chapter describes the MIB objects in the axIpNatDsliteStats subgroup of the axIpNatStats group, under axApp. The axIpNatDsliteStats subgroup contains objects for Dual-Stack Lite (DS-Lite).

axIpNatDsliteStats Objects

axIpNatDsliteStatTotalTcpPortAlloc

Description Get the total number of TCP ports allocated for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.1

axIpNatDsliteStatTotalTcpPortFreed

Description Get the total number of TCP ports freed for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.2

axIpNatDsliteStatTotalUdpPortAlloc

Description Get the total number of UDP ports allocated for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.3

axIpNatDsliteStatTotalUdpPortFreed

Description Get the total number of UDP ports freed for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.4

axIpNatDsliteStatTotalIcmpPortAlloc

Description Get the total number of ICMP ports allocated for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.5

axIpNatDsliteStatTotalIcmpPortFreed

Description Get the total number of ICMP ports freed for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.6

axIpNatDsliteStatDataSessionCreated

Description Get the total number of sessions created for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.7

axIpNatDsliteStatDataSessionFreed

Description Get the total number of sessions freed for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.8

axIpNatDsliteUserQuotaCreated

Description Get the total number of user-quota sessions created for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.9

axIpNatDsliteUserQuotaFreed

Description Get the total number of user-quota sessions freed for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.10

axIpNatDsliteUserQuotaCreateFailed

Description Get the total number of user-quota session creation failures for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.11

axIpNatDsliteStatTcpNatPortUnAvail

Description Get the number of times TCP NAT ports were unavailable for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.12

axIpNatDsliteStatUdpNatPortUnAvail

Description Get the number of times UDP NAT ports were unavailable for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.13

axIpNatDsliteStatIcmpNatPortUnavail

Description Get the number of times ICMP NAT ports were unavailable for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.14

axIpNatDsliteStatNewUserResourceUnAvail

Description Get the number of times resources were unavailable for new DS-Lite users.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.15

axIpNatDsliteStatTcpUserQuotaExceed

Description Get the number of times a DS-Lite user quota for TCP was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.16

axIpNatDsliteStatUdpUserQuotaExceed

Description Get the number of times a DS-Lite user quota for UDP was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.17

axIpNatDsliteStatIcmpUserQuotaExceed

Description Get the number of times a DS-Lite user quota for ICMP was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.18

axIpNatDsliteStatExtendedUserQuotaMatched

Description Get the number of times an extended DS-Lite user quota was reached.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.19

axIpNatDsliteStatExtendedUserQuotaExceeded

Description Get the number of times an extended DS-Lite user quota was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.20

axIpNatDsliteStatTcpFullConeSessionCreated

Description Get the number of times a TCP full-cone session for DS-Lite was created.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.21

axIpNatDsliteStatTcpFullConeSessionFreed

Description Get the number of times a TCP full-cone session for DS-Lite was freed.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.22

axIpNatDsliteStatUdpFullConeSessionCreated

Description Get the number of times a UDP full-cone session for DS-Lite was created.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.23

axIpNatDsLiteStatUdpFullConeSessionFreed

Description Get the number of times a UDP full-cone session for DS-Lite was freed.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.24

axIpNatDsLiteStatFullConeSessionFailed

Description Get the number of times creation of a full-cone session for DS-Lite failed.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.25

axIpNatDsliteStatHairpinSessionCreated

Description Get the number of hairpin sessions created for DS-Lite.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.26

axIpNatDsliteStatSelfHairpinDrop

Description Get the number of DS-Lite hairpin sessions dropped because the source and destination client were the same.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.27

axIpNatDsliteStatEndpointIndependentMapMatched

Description Get the number of times DS-Lite reused the mapping assigned to a client for subsequent traffic for that client.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.28

axIpNatDsliteStatEndpointIndependentFilterMatched

Description Get number of times traffic from any source to a given mapped client was forwarded to the internal client, regardless of the endpoint.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.29

axIpNatDsliteStatEndpointDependentFilterDrop

Description Get the number of times traffic to a mapped client was dropped because endpoint-independent filtering was not enabled, and the traffic was not from the endpoint mapped to the client.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.30

axIpNatDsliteStatTruncatedPacket

Description Get the number of tunneled packets that were truncated because they were longer than the Maximum Transmission Unit (MTU) on the AX interface where the packet was received.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.31

axIpNatDsliteStatLsnLidDrop

Description Get the number of packets that matched the drop override action in the LID.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.32

axIpNatDsliteStatLsnLidPassThrough

Description Get the number of packets that matched the pass-through override action in the LID.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.33

axIpNatDsliteStatNoClassListMatch

Description Get the number of packets dropped because they did not match a class-list entry.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.34

axIpNatDsliteStatPermitClassListDrop

Description Get the number of packets dropped because they did not match the class list's permit list.

OID .1.3.6.1.4.1.22610.2.4.3.18.6.1.35

AX MIB Objects: axApp Group

This chapter describes the MIB objects in the axApp group. This group shows Server Load Balancing (SLB) objects.

Note: For information about the Large Scale NAT (LSN) objects in this group, see "AX MIB Objects: axApp Group—Large Scale NAT Objects" on page 49.

axAppGlobals Objects

axAppGlobalSystemResourceUsageTable

Description

Get the global system resource usage table. This table lists the minimum and maximum numbers of each type of system resource that can be configured or used, the default maximum number allowed by the configuration, and the number currently in use.

Table 23 describes the fields in this table.

TABLE 23 axAppGlobalSystemResourceUsageTable fields

Field	Description
axAppGlobalSystemResourceIndex .1.1	Index number of the table entry.
axAppGlobalSystemResourceName .1.2	System resource name.
axAppGlobalAllowedCurrentValue .1.3	Current maximum value allowed for the system resource.
axAppGlobalAllowedDefaultValue .1.4	Default maximum value allowed for the system resource.
axAppGlobalAllowedMinValue .1.5	Minimum value allowed for the system resource.
axAppGlobalAllowedMaxValue .1.6	Maximum configurable value for the system resource.

OID `.1.3.6.1.4.1.22610.2.4.3.1.1.1`

axAppGlobalTotalCurrentConnections

Description Get the total number of currently active connections.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.1

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.1.2.1.0 = Counter64: 66453
```

axAppGlobalTotalNewConnections

Description Get the total number of new connections.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.2

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.1.2.2.0 = Counter64: 8817
```

axAppGlobalTotalNewL4Connections

Description Get the total number of new Layer 4 connections.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.3

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.1.2.3.0 = Counter64: 4433
```

axAppGlobalTotalNewL7Connections

Description Get the total number of new Layer 7 connections.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.4

Example

```
<SNMPv2-SMI::enterprises.22610.2.4.3.1.2.4.0 = Counter64: 3388
```

axAppGlobalTotalNewIPNatConnections

Description Get the total number of new IP source Network Address Translation (NAT) connections.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.5

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.1.2.5.0 = Counter64: 2
```

axAppGlobalTotalSSLConnections

Description Get the total number of new SSL connections.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.6

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.1.2.6.0 = Counter64: 770
```

axAppGlobalTotalL7Requests

Description Get the total number of Layer 7 requests.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.7

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.1.2.7.0 = Counter64: 9229431
```

axGlobalAppPacketDrop

Description Get the total number of dropped packets (buffer drops) during the most recent 10-second polling interval.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.8

axGlobalTotalAppPacketDrop

Description Get the total number of dropped packets (buffer drops) since the last time this statistics counter was cleared.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.9

axGlobalTotalL4Session

Description Get the total number of Layer 4 sessions.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.10

axAppGlobalTotalCurrentConnectionsInteger

Description Gets the total of current connections as an integer value.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.11

axGlobalTotalL4SessionInteger

Description Gets the total number of Layer 4 sessions as an integer value.

OID .1.3.6.1.4.1.22610.2.4.3.1.2.12

axAppGlobalBufferConfigLimit

Description Gets the configured limit for application buffers.

OID .1.3.6.1.4.1.22610.2.4.3.1.3.1

axAppGlobalBufferCurrentUsage

Description Gets the number of application buffers in current use.

OID .1.3.6.1.4.1.22610.2.4.3.1.3.2

axServers Objects

axServerCount

Description Get the total number of real servers in the SLB server table (axServerTable).

OID .1.3.6.1.4.1.22610.2.4.3.2.1.1

Example

```
axServerCount.0:-->30
```

axServerTable

Description Get the SLB server table.

OID .1.3.6.1.4.1.22610.2.4.3.2.1.2

Table 24 describes the fields in this table.

TABLE 24 axServerTable fields

Field	Description
axServerName .1.1	Real server name. Use this field as the table index to locate entries.
axServerAddress .1.2	IP address of the server.
axServerEnabledState .1.3	State of the server: • Enabled(1) • Disabled(0)
axServerHealthMonitor .1.4	Name of the health monitor assigned to the server.
axServerMonitorState .1.5	State of the server: • Disabled(0) • Up(1) • Down(2)
axServerAddressType .1.6	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

Use the axServerName as the table index to locate an entry.

axServerStatCount

Description Get the total number of real servers in the real server statistics table (axServerStatTable).

OID `.1.3.6.1.4.1.22610.2.4.3.2.2.1`

Example

```
axServerStatCount.0:-->30
```

axServerStatTable

Description Get the real server statistics table.

OID `.1.3.6.1.4.1.22610.2.4.3.2.2.2`

Table 25 describes the fields in this table.

TABLE 25 axServerStatTable fields

Field	Description
axServerStatAddress .1.1	IP address of the server.
axServerStatName .1.2	Server name.
axServerStatServerPktsIn .1.3	Number of packets received from the server.
axServerStatServerBytesIn .1.4	Number of bytes received from the server.
axServerStatServerPktsOut .1.5	Number of packets sent to the server.
axServerStatServerBytesOut .1.6	Number of bytes sent to the server.
axServerStatServerTotalConns .1.7	Total number of connections.
axServerStatServerCurConns .1.8	Total number of current connections.
axServerStatServerPersistConns .1.9	**Note:** This object is deprecated.
axServerStatServerStatus .1.10	State of the server: • Disabled(0) • Up(1) • Down(2)
axServerStatServerTotalL7Reqs .1.11	Total number of Layer 7 requests, if applicable.
axServerStatServerTotalCurrL7Reqs .1.12	Number of current Layer 7 requests, if applicable.
axServerStatServerTotalSuccL7Reqs .1.13	Number of successful Layer 7 requests, if applicable.
axServerStatServerPeakConns .1.14	Number of peak connections.
axServerStatAddressType .1.15	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

Use the axServerStatAddress as the table index to locate an entry.

axServerPortTable

Description Get the real sever port table.

OID .1.3.6.1.4.1.22610.2.4.3.2.3.1

Table 26 describes the fields in this table.

TABLE 26 axServerPortTable fields

Field	Description
axServerNameInPort .1.1	Server name.
axServerPortType .1.2	Server port type: • TCP(2) • UDP(3)
axServerPortNum .1.3	Protocol port number.
axServerAddressInPort .1.4	IP address of the server.
axServerPortEnabledState .1.5	State of the port: • Disabled(0) • Enabled(1)
axServerPortHealthMonitor .1.6	Name of the health monitor assigned to the port.
axServerPortConnLimit .1.7	Maximum number of concurrent connections allowed on the port.
axServerPortWeight .1.8	Load-balancing preference for this server. A higher weight gives more favor to this server for this port relative to the other servers.
axServerPortMonitorState .1.9	State of the port: • Disabled(0) • Up(1) • Down(2)
axServerAddressInPortType .1.10	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

Use the compound of axServerNameInPort, axServerPortType, and axServerPortNum as the table index to locate an entry.

axServerPortStatTable

Description Get the real server port statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.2.4.1

Table 27 describes the fields in this table.

TABLE 27 axServerPortStatTable fields

Field	Description
axServerStatAddrInPort .1.1	IP address of the server.
axServerStatPortType .1.2	Server port type: • TCP(2) • UDP(3)
axServerStatPortNum .1.3	Server port number.
axServerStatNameInPort .1.4	Server name.
axServerPortStatPktsIn .1.5	Number of packets received from the server port.
axServerPortStatBytesIn .1.6	Number of bytes received from the server port.
axServerPortStatPktsOut .1.7	Number of packets sent to the server port.
axServerPortStatBytesOut .1.8	Number of bytes sent to the server port.
axServerPortStatTotalConns .1.9	Total number of connections to the port.
axServerPortStatCurConns .1.10	Total number of current connections to the port.
axServerPortStatPersistConns .1.11	**Note:** This object is deprecated.
axServerPortStatStatus .1.12	State of the port: • Disabled(0) • Up(1) • Down(2)
axServerPortStatTotalL7Reqs .1.13	Total number of Layer 7 requests, if applicable.
axServerPortStatTotalCurrL7Reqs .1.14	Number of current Layer 7 requests, if applicable.

TABLE 27 axServerPortStatTable fields (Continued)

Field	Description
axServerPortStatTotalSuccL7Reqs .1.15	Number of successful Layer 7 requests, if applicable.
axServerPortStatPeakConns 1.16	Number of peak connections.
axServerStatAddrInPortType .1.17	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

Use the compound of axServerStatAddrInPort, axServerStatPortType, and axServerStatPortNum as the table index to locate an entry.

axServiceGroups Objects

axServiceGroupCount

Description Get the number of service groups in the service group table (axServiceGroupTable).

OID `.1.3.6.1.4.1.22610.2.4.3.3.1.1`

Example

```
axServiceGroupCount.0:-->6
```

axServiceGroupTable

Description Get the service group table.

OID `.1.3.6.1.4.1.22610.2.4.3.3.1.2`

Table 28 describes the fields in this table.

TABLE 28 axServiceGroupStatTable fields

Field	Description
axServiceGroupName .1.1	Service group name.

TABLE 28 axServiceGroupStatTable fields (Continued)

Field	Description
axServiceGroupType .1.2	Service group type: • Firewall(1) • TCP(2) • UDP(3)
axServiceGroupLbAlgorithm .1.3	Load-balancing method used to select servers in the group: • RoundRobin(0) • WeightRoundRobin(1) • LeastConnection(2) • WeightLeastConnection(3) • ServiceLeastconnection(4) • ServiceWeightLeastConnection(5) • FastResponseTime(6) • LeastRequest(7) • RoundRobinStrict(8) • sourceIpHashBasedStateless(9) • sourceIpOnlyHashBasedStateless(10) • destinationIpHashBasedStateless(11) • sourceDestinationIpHashBasedStateless(12) • perPacketRoundRobinStateless(13)
axServiceGroupDisplayStatus .1.4	Status of the service group: • AllUp(1) – All service ports on all real servers in the service group are up. • FunctionalUp(2) – Each service port number is up on at least one real server in the service group. • PartialUp(3) – Some service ports are up but others are down. • Stopped(4) – Either all the service ports are down, or some but not all of them are Disabled.

Use the axServiceGroupName as the table index to locate an entry.

axServiceGroupStatTable

Description Get the service group statistics table. This table shows statistics for service groups.

OID `.1.3.6.1.4.1.22610.2.4.3.3.2.1`

Table 29 describes the fields in this table.

TABLE 29 axServiceGroupStatTable fields

Field	Description
axServiceGroupStatName .1.1	Service group name.
axServiceGroupStatPktsIn .1.2	Number of packets received by the service group.
axServiceGroupStatBytesIn .1.3	Number of bytes received by the service group.
axServiceGroupStatPktsOut .1.4	Number of packets sent to the service group.
axServiceGroupStatBytesOut .1.5	Number of bytes sent to the service group.
axServiceGroupStatTotConns .1.6	Total number of connections.
axServiceGroupStatCurConns .1.7	Total number of current connections.
axServiceGroupStatPersistConns .1.8	**Note:** This object is deprecated.
axServiceGroupStatDisplayStatus .1.9	Status of the service group: • AllUp(1) – All service ports on all real servers in the service group are up. • FunctionalUp(2) – Each service port number is up on at least one real server in the service group. • PartialUp(3) – Some service ports are up but others are down. • Stopped(4) – Either all the service ports are down, or some but not all of them are Disabled.
axServiceGroupStatTotalL7Reqs .1.10	Total number of Layer 7 requests, if applicable.
axServiceGroupStatTotalCurrL7Reqs .1.11	Number of current Layer 7 requests, if applicable.
axServiceGroupStatTotalSuccL7Reqs .1.12	Number of successful Layer 7 requests, if applicable.
axServiceGroupStatPeakConns .1.13	Number of peak connections.

Use the axServiceGroupStatName as the table index to locate an entry.

axServiceGroupMemberTable

Description Get the service group member table.

OID .1.3.6.1.4.1.22610.2.4.3.3.3.1

Table 30 describes the fields in this table.

TABLE 30 axServiceGroupMemberTable fields

Field	Description
axServiceGroupNameInMember .1.1	Service group name.
axServiceGroupMemberAddrType .1.2	Service group type: • Firewall(1) • TCP(2) • UDP(3)
axServerNameInServiceGroupMember .1.3	Server name.
axServicePortNumInServiceGroupMember .1.4	Server port number.
axServerPortPriorityInServiceGroupMember .1.5	Priority of the member.
axServerPortStatusInServiceGroupMember .1.6	Server port status: • Disabled(0) • Up(1) • Down(2)

Use the compound of axServiceGroupNameInMember, axServiceGroupMemberAddrType, axServerNameInServiceGroupMember, and axServerPortNumInServiceGroupMember as the table index to locate an entry.

axServiceGroupMemberStatTable

Description Get the service group member statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.3.4.1

Table 31 describes the fields in this table.

TABLE 31 axServiceGroupMemberStatTable fields

Field	Description
axServiceGroupMemberStatName .1.1	Service group name.
axServiceGroupStatAddrType .1.2	Service group type: Firewall(1) TCP(2) UDP(3
axServerNameInServiceGroupMemberStat .1.3	Server name.
axServerPortNumInSerivceGroupMemberStat .1.4	Protocol port number.
axServiceGroupMemberStatPktsIn .1.5	Number of packets received from the service group member.
axServiceGroupMemberStatBytesIn .1.6	Number of bytes received from the service group member.
axServiceGroupMemberStatPktsOut .1.7	Number of packets sent to the service group member.
axServiceGroupMemberStatBytesOut .1.8	Number of bytes sent to the service group member.
axServiceGroupMemberStatPersistConns .1.9	**Note:** This object is deprecated.
axServiceGroupMemberStatTotConns .1.10	Total number of connections.
axServiceGroupMemberStatCurConns .1.11	Total number of current connections.
axServerPortStatusInServiceGroupMemberStat .1.12	Server port status: • Disabled(0) • Up(1) • Down(2)
axServiceGroupMemberStatTotalL7Reqs .1.13	Total number of Layer 7 requests, if applicable.
axServiceGroupMemberStatTotalCurrL7Reqs .1.14	Number of current Layer 7 requests, if applicable.
axServiceGroupMemberStatTotalSuccL7Reqs .1.15	Number of successful Layer 7 requests, if applicable.
axServiceGroupMemberStatResponseTime .1.16	Server port response time, in milliseconds.
axServiceGroupMemberStatPeakConns .1.17	Number of peak connections for the service group member.

Use the compound of axServiceGroupMemberStatName, axServiceGroup-MemberStatAddrType, axServerNameInServiceGroupMemberStat, and axServerPortNumInServiceGroupMemberStat as the table index to locate an entry.

axVirtualServers Objects

axVirtualServerCount

Description Get the number of virtual servers in the virtual server table (axVirtual-ServerTable).

OID `.1.3.6.1.4.1.22610.2.4.3.4.1.1`

Example

```
axVirtualServerCount.0:-->3
```

axVirtualServerTable

Description Get the virtual server table.

OID `.1.3.6.1.4.1.22610.2.4.3.4.1.2`

Table 32 describes the fields in this table.

TABLE 32 axVirtualServerTable fields

Field	Description
axVirtualServerName .1.1	Virtual server name.
axVirtualServerAddress .1.2	IP address of the virtual server.
axVirtualServerEnabled .1.3	State of the virtual server: • Disabled(0) • Enabled(1)
axVirtualServerHAGroup .1.4	High Availability (HA) group to which the virtual server is assigned.

TABLE 32 axVirtualServerTable fields (Continued)

Field	Description
axVirtualServerDisplayStatus .1.5	Status of the virtual port: • Disabled(0) – The virtual server has been administratively disabled. • AllUp(1) – All virtual ports on the virtual server are running. • FunctionalUp(2) – Some of the virtual ports are up or partially up, but at least one of them is not up. • PartialUp(3) – At least one virtual port is up or partially up, but at least one other virtual port has stopped. • Stopped(4) – All the virtual ports are down.
axVirtualServerAddressType .1.6	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

Use the axVirtualServerName as the table index to locate an entry.

axVirtualServerStatTable

Description Get the virtual server statistics table.

OID `.1.3.6.1.4.1.22610.2.4.3.4.2.1`

Table 33 describes the fields in this table.

TABLE 33 axVirtualServerStatTable fields

Field	Description
axVirtualServerStatAddress .1.1	IP address of the virtual server.
axVirtualServerStatName .1.2	Virtual server name.
axVirtualServerStatPktsIn .1.3	Number of packets received from clients.
axVirtualServerStatBytesIn .1.4	Number of bytes received from clients.
axVirtualServerStatPktsOut .1.5	Number of packets sent to clients.
axVirtualServerStatBytesOut .1.6	Number of bytes sent to clients.

TABLE 33 axVirtualServerStatTable fields (Continued)

Field	Description
axVirtualServerStatPersistConns .1.7	**Note:** This object is deprecated.
axVirtualServerStatTotConns .1.8	Total number of connections.
axVirtualServerStatCurConns .1.9	Total number of current connections.
axVirtualServerStatStatus .1.10	Virtual server status: • Up(1) • Down(2) • Disabled(3)
axVirtualServerStatDisplayStatus .1.11	Status of the virtual server: • Disabled(0) – The virtual server has been administratively disabled. • AllUp(1) – All virtual ports on the virtual server are running. • FunctionalUp(2) – Some of the virtual ports are up or partially up, but at least one of them is not up. • PartialUp(3) – At least one virtual port is up or partially up, but at least one other virtual port has stopped. • Stopped(4) – All the virtual ports are down.
axVirtualServerStatTotalL7Reqs .1.12	Total number of Layer 7 requests, if applicable.
axVirtualServerStatTotalCurrL7Reqs .1.13	Number of current Layer 7 requests, if applicable.
axVirtualServerStatTotalSuccL7Reqs .1.14	Number of successful Layer 7 requests, if applicable.
axVirtualServerStatPeakConns .1.15	Number of peak connections.
axVirtualServerStatAddressType .1.16	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

Use the axVirtualServerStatAddress as the table index to locate an entry.

axVirtualServerPortTable

Description Get the virtual server port table.

OID `.1.3.6.1.4.1.22610.2.4.3.4.3.1`

Table 34 describes the fields in this table.

TABLE 34 axVirtualServerPortTable fields

Field	Description
axVirtualServerPortName .1.1	Virtual server name.
axVirtualServerPortType .1.2	Service type of the virtual port: • Firewall(1) • TCP(2) • UDP(3) • Others(5) • RTSP(8) • FTP(9) • MMS(10) • SIP(11) • FastHTTP(12) • HTTP(14) • HTTPS(15) • SSLProxy(16) • SMTP(17) • SIP-TCP(18) • SIPS(19) • TCPProxy(20) • Diameter(21) • DNS-UDP(22) • TFTP(23) • DNS-TCP(24)
axVirtualServerPortNum .1.3	Virtual port number.
axVirtualServerPortAddress .1.4	Virtual server IP address.
axVirtualServerPortEnabled .1.5	Virtual port status: • Disabled(0) • Enabled(1)
axVirtualServerPortServiceGroup .1.6	Service group bound to the virtual port.
axVirtualServerPortHaGroupID .1.7	HA group to which the virtual port is assigned.

TABLE 34 axVirtualServerPortTable fields (Continued)

Field	Description
axVirtualServerPortPersistTemplateType .1.8	Type of persistence template bound to the virtual port, if applicable: • CookiePersist(1), • SourcIPPersist(2), • DestinationIPPersist(3), • SSLIDPersist(4), • UNKNOWN(0)
axVirtualServerPortPersistTempl .1.9	Name of the persistence template bound to the virtual port, if applicable.
axVirtualServerPortTemplate .1.10	Name of the virtual port template bound to the virtual port.
axVirtualServerPortPolicyTemplate .1.11	Name of the policy template bound to the virtual port, if applicable. (Policy templates contain configuration information for Policy-based SLB.)
axVirtualServerPortTCPTemplate .1.12	Name of the TCP template bound to the virtual port, if applicable.
axVirtualServerPortHTTPTemplate .1.13	Name of the HTTP template bound to the virtual port, if applicable.
axVirtualServerPortRamCacheTemplate .1.14	Name of the RAM caching template bound to the virtual port, if applicable.
axVirtualServerPortConnReuseTemplate .1.15	Name of the connection reuse template bound to the virtual port, if applicable.
axVirtualServerPortTCPProxyTemplate .1.16	Name of the TCP-proxy template bound to the virtual port, if applicable.
axVirtualServerPortClientSSLTemplate .1.17	Name of the client-SSL template bound to the virtual port, if applicable.
axVirtualServerPortServerSSLTemplate .1.18	Name of the server -SSL template bound to the virtual port, if applicable.
axVirtualServerPortRTSPTemplate .1.19	Name of the RTSP (streaming-media) template bound to the virtual port, if applicable.
axVirtualServerPortSMTPTemplate .1.20	Name of the SMTP template bound to the virtual port, if applicable.
axVirtualServerPortSIPTemplate .1.21	Name of the SIP template bound to the virtual port, if applicable.
axVirtualServerPortUDPTemplate .1.22	Name of the UDP template bound to the virtual port, if applicable.

TABLE 34 axVirtualServerPortTable fields (Continued)

Field	Description
axVirtualServerPortDisplayStatus .1.23	State of the virtual port: • Disabled(0) – The virtual port has been administratively disabled. • AllUp(1) – All members (real servers and ports) in all service groups bound to the virtual port are up. • FunctionalUp(2) – At least one member in a service group bound to the virtual port is up, but not all members are up. • Stopped(4) – All members in all service groups bound to the virtual port are down.
axVirtualServerPortAddressType .1.24	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

axVirtualServerPortStatTable

Description Get virtual server port statistics table.

OID `.1.3.6.1.4.1.22610.2.4.3.4.4.1`

Table 35 describes the fields in this table.

TABLE 35 axVirtualServerPortStatTable fields

Field	Description
axVirtualServerPortStatAddress .1.1	Virtual server IP address.

TABLE 35 axVirtualServerPortStatTable fields (Continued)

Field	Description
axVirtualServerStatPortType .1.2	Service type of the virtual port: • Firewall(1) • TCP(2) • UDP(3) • Others(5) • RTSP(8) • FTP(9) • MMS(10) • SIP(11) • FastHTTP(12) • HTTP(14) • HTTPS(15) • SSLProxy(16) • SMTP(17) • SIP-TCP(18) • SIPS(19) • TCPProxy(20) • Diameter(21) • DNS-UDP(22)
axVirtualServerStatPortNum .1.3	Virtual port number.
axVirtualServerPortStatName .1.4	Virtual server name.
axVirtualServerStatPortStatus .1.5	Virtual port status: • Up(1) • Down(2) • Disabled(3)
axVirtualServerPortStatPktsIn .1.6	Number of packets received from clients.
axVirtualServerPortStatBytesIn .1.7	Number of bytes received from clients.
axVirtualServerPortStatPktsOut .1.8	Number of packets sent to clients.
axVirtualServerPortStatBytesOut .1.9	Number of bytes sent to clients.
axVirtualServerPortStatPersistConns .1.10	**Note:** This object is deprecated.
axVirtualServerPortStatTotConns .1.11	Total number of connections.

TABLE 35 axVirtualServerPortStatTable fields (Continued)

Field	Description
axVirtualServerPortStatCurConns .1.12	Total number of current connections.
axVirtualServerStatPortDisplayStatus .1.13	State of the virtual port: • Disabled(0) – The virtual port has been administratively disabled. • AllUp(1) – All members (real servers and ports) in all service groups bound to the virtual port are up. • FunctionalUp(2) – At least one member in a service group bound to the virtual port is up, but not all members are up. • Stopped(4) – All members in all service groups bound to the virtual port are down.
axVirtualServerPortStatTotalL7Reqs .1.14	Total number of Layer 7 requests, if applicable.
axVirtualServerPortStatTotalCurrL7Reqs .1.15	Number of current Layer 7 requests, if applicable.
axVirtualServerPortStatTotalSuccL7Reqs .1.16	Number of successful Layer 7 requests, if applicable.
axVirtualServerPortStatPeakConns .1.17	Number of peak connections.
axVirtualServerPortStatAddressType .1.18	IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

Use the compound of axVirtualServerPortStatAddress, axVirtualServerStatPortType, and axVirtualServerStatPortNum as the table index to locate an entry.

axConnReuseStats Objects

axConnReuseStatTotalOpenPersist

Description Get the total count of open persistent connection-reuse sessions.

OID .1.3.6.1.4.1.22610.2.4.3.5.1

Example

```
axConnReuseStatTotalOpenPersist.0:-->135
```

axConnReuseStatTotalActivePersist

Description Get the total count of active persistent connection-reuse sessions.

OID .1.3.6.1.4.1.22610.2.4.3.5.2

Example

```
axConnReuseStatTotalActivePersist.0:-->1038
```

axConnReuseStatTotalEstablished

Description Get the total count of established connection-reuse sessions.

OID .1.3.6.1.4.1.22610.2.4.3.5.3

Example

```
axConnReuseStatTotalEstablished.0:-->458
```

axConnReuseStatTotalTerminated

Description Get the total count of terminated connection-reuse sessions.

OID .1.3.6.1.4.1.22610.2.4.3.5.4

Example

```
axConnReuseStatTotalTerminated.0:-->2
```

axConnReuseStatTotalBound

Description Get the total count of bound connection-reuse sessions.

OID .1.3.6.1.4.1.22610.2.4.3.5.5

Example

```
axConnReuseStatTotalBound.0:-->21
```

axConnReuseStatTotalUNBound

Description Get the total count of unbound connection-reuse sessions.

OID .1.3.6.1.4.1.22610.2.4.3.5.6

Example

```
axConnReuseStatTotalUNBound.0:-->422
```

axConnReuseStatTable

Description Get the connection-reuse statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.5.7

Table 36 describes the fields in this table.

TABLE 36 axConnReuseStatTable fields

Field	Description
axConnReuseStatCpuIndex .1.1	CPU number.
axConnReuseStatOpenPersist .1.2	Total number of open persistent connection-reuse sessions.
axConnReuseStatActivePersist .1.3	Total number of active persistent connection-reuse sessions.
axConnReuseStatTotalEst .1.4	Total number of established connection-reuse sessions.
axConnReuseStatTotalTerm .1.5	Total number of terminated connection-reuse sessions.
axConnReuseStatTotalBind .1.6	Total number of bound connection-reuse sessions.
axConnReuseStatTotalUNBind .1.7	Total number of unbound connection-reuse sessions.
axConnReuseStatTotalDelayedUNBind .1.8	Total number of connections whose unbinding was delayed.
axConnReuseStatTotalLongRes .1.9	Total number of responses that took too long.
axConnReuseStatTotalMissedRes .1.10	Total number of missed responses to HTTP requests.

axConnReuseStatTotalDelayedUNBound

Description Get the total number of connections whose unbinding was delayed.

OID .1.3.6.1.4.1.22610.2.4.3.5.8

axConnReuseStatTotalLongResponse

Description Get the total number of responses that took too long.

OID .1.3.6.1.4.1.22610.2.4.3.5.9

axConnReuseStatTotalMissedRes

Description Get the total number of missed responses to HTTP requests.

OID .1.3.6.1.4.1.22610.2.4.3.5.7.1.10

axFastHttpProxyStats Objects

axFastHttpProxyStatTotalConn

Description Get the total number of fast HTTP proxy connections.

OID .1.3.6.1.4.1.22610.2.4.3.6.1

Example

```
axFastHttpProxyStatTotalConn.0:-->3
```

axFastHttpProxyStatTotalReq

Description Get the total number of fast HTTP requests.

OID .1.3.6.1.4.1.22610.2.4.3.6.2

Example

```
axFastHttpProxyStatTotalReq.0:-->12
```

axFastHttpProxyStatTotalSuccReq

Description Get the total number of fast HTTP requests which connected successful.

OID .1.3.6.1.4.1.22610.2.4.3.6.3

Example

```
axFastHttpProxyStatTotalSuccReq.0:-->10
```

axFastHttpProxyStatTotalNoProxy

Description Get the total number of fast HTTP proxy errors.

OID .1.3.6.1.4.1.22610.2.4.3.6.4

Example

```
axFastHttpProxyStatTotalNoProxy.0:-->0
```

axFastHttpProxyStatTotalCRst

Description Get the total number of fast HTTP connections reset by clients.

OID .1.3.6.1.4.1.22610.2.4.3.6.5

Example

```
axFastHttpProxyStatTotalCRst.0:-->16990
```

axFastHttpProxyStatTotalSRst

Description Get the total number of fast HTTP connections reset by servers.

OID .1.3.6.1.4.1.22610.2.4.3.6.6

Example

```
axFastHttpProxyStatTotalSRst.0:-->23
```

axFastHttpProxyStatTotalNoTuple

Description Get the total number of fast HTTP tuple errors.

OID .1.3.6.1.4.1.22610.2.4.3.6.7

Example

```
axFastHttpProxyStatTotalNoTuple.0:-->0
```

axFastHttpProxyStatTotalReqErr

Description Get the total number of failures to parse received fast HTTP requests.

OID .1.3.6.1.4.1.22610.2.4.3.6.8

Example

```
axFastHttpProxyStatTotalReqErr.0:-->0
```

axFastHttpProxyStatTotalSvrSelErr

Description Get the total number of fast HTTP server selection failures.

OID .1.3.6.1.4.1.22610.2.4.3.6.9

Example

```
axFastHttpProxyStatTotalSvrSelErr.0:-->0
```

axFastHttpProxyStatTotalFwdReqErr

Description Get the total number of firewall request failures.

OID .1.3.6.1.4.1.22610.2.4.3.6.10

Example

```
axFastHttpProxyStatTotalFwdReqErr.0:-->1
```

axFastHttpProxyStatTotalFwdDataReqErr

Description Get the total number of firewall data request failures.

OID .1.3.6.1.4.1.22610.2.4.3.6.11

Example

```
axFastHttpProxyStatTotalFwdDataReqErr.0:-->0
```

axFastHttpProxyStatTotalReqReXmit

Description Get the total number of retransmitted fast HTTP requests.

OID .1.3.6.1.4.1.22610.2.4.3.6.12

Example

```
axFastHttpProxyStatTotalReqReXmit.0:-->0
```

axFastHttpProxyStatTotalReqPktOutOrder

Description Get the total number of fast HTTP request packets received from clients out of sequence.

OID .1.3.6.1.4.1.22610.2.4.3.6.13

Example

```
axFastHttpProxyStatTotalReqPktOutOrder.0:-->568841
```

axFastHttpProxyStatTotalSvrReSel

Description Get the total number of failures of initial real server selection for a fast HTTP request (for example, due to a TCP Reset sent by the server).

OID .1.3.6.1.4.1.22610.2.4.3.6.14

Example

```
axFastHttpProxyStatTotalSvrReSel.0:-->2
```

axFastHttpProxyStatTotalPreMatureClose

Description Get the total number of premature fast HTTP connection closures.

OID .1.3.6.1.4.1.22610.2.4.3.6.15

Example

```
axFastHttpProxyStatTotalPreMatureClose.0:-->3
```

axFastHttpProxyStatTotalSvrConn

Description Get the total number of fast HTTP connections made with servers.

OID .1.3.6.1.4.1.22610.2.4.3.6.16

Example

```
axFastHttpProxyStatTotalSvrConn.0:-->4506
```

axFastHttpProxyStatTotalSNATErr

Description Get the total number of fast HTTP source NAT failures.

OID .1.3.6.1.4.1.22610.2.4.3.6.17

Example

```
axFastHttpProxyStatTotalSNATErr.0:-->0
```

axFastHttpProxyStatTable

Description Get the fast-HTTP proxy statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.6.18

Table 37 describes the fields in this table.

TABLE 37 axFastHttpProxyStatTable fields

Field	Description
axFastHttpProxyStatCpuIndex .1.1	CPU number.
axFastHttpProxyStatCurrProxyConns .1.2	Total number of current fast-HTTP proxy connections.
axFastHttpProxyStatTotalProxyConns .1.3	Total number of fast-HTTP proxy connections.
axFastHttpProxyStatHttpReq .1.4	Total number of HTTP requests.
axFastHttpProxyStatHttpReqSucc .1.5	Total number of HTTP requests that resulted in successful connections.
axFastHttpProxyStatNoProxyErr .1.6	Total number of proxy errors.
axFastHttpProxyStatClientRst .1.7	Total number of HTTP connections reset by clients.
axFastHttpProxyStatServerRst .1.8	Total number of HTTP connections reset by servers.
axFastHttpProxyStatNoTupleErr .1.9	Total number of tuple failures.
axFastHttpProxyStatParseReqFail .1.10	Total number of request parser failures.
axFastHttpProxyStatServerSelFail .1.11	Total number of server selection failures.
axFastHttpProxyStatFwdReqFail .1.12	Total number of forward request failures.
axFastHttpProxyStatFwdReqDataFail .1.13	Total number of forward data request failures.
axFastHttpProxyStatReqReTran .1.14	Total number of retransmitted HTTP requests.

TABLE 37 axFastHttpProxyStatTable fields (Continued)

Field	Description
axFastHttpProxyStatReqPktOutOrder .1.15	Total number of request packets received out of order.
axFastHttpProxyStatServerReSel .1.16	Total number of server re-selections.
axFastHttpProxyStatServerPreMatureClose .1.17	Total number of prematurely closed server connections.
axFastHttpProxyStatServerConnMade .1.18	Total number of server connections made.

Use the axFastHttpProxyStatCpuIndex as the table index to locate an entry.

Example

```
axFastHttpProxyStatCurrProxyConns.0:-->36
axFastHttpProxyStatCurrProxyConns.1:-->42
axFastHttpProxyStatCurrProxyConns.2:-->20
axFastHttpProxyStatTotalProxyConns.0:-->77
axFastHttpProxyStatTotalProxyConns.1:-->43
axFastHttpProxyStatTotalProxyConns.2:-->33
axFastHttpProxyStatHttpReq.0:-->1002
axFastHttpProxyStatHttpReq.1:-->36
axFastHttpProxyStatHttpReq.2:-->0
axFastHttpProxyStatHttpReqSucc.0:-->1002
axFastHttpProxyStatHttpReqSucc.1:-->36
axFastHttpProxyStatHttpReqSucc.2:-->0
axFastHttpProxyStatNoProxyErr.0:-->5
axFastHttpProxyStatNoProxyErr.1:-->2
axFastHttpProxyStatNoProxyErr.2:-->0
axFastHttpProxyStatClientRst.0:-->0
axFastHttpProxyStatClientRst.1:-->0
axFastHttpProxyStatClientRst.2:-->0
axFastHttpProxyStatServerRst.0:-->0
axFastHttpProxyStatServerRst.1:-->0
axFastHttpProxyStatServerRst.2:-->0
axFastHttpProxyStatNoTupleErr.0:-->0
axFastHttpProxyStatNoTupleErr.1:-->1
axFastHttpProxyStatNoTupleErr.2:-->0
axFastHttpProxyStatParseReqFail.0:-->13
axFastHttpProxyStatParseReqFail.1:-->13
axFastHttpProxyStatParseReqFail.2:-->5
axFastHttpProxyStatServerSelFail.0:-->0
axFastHttpProxyStatServerSelFail.1:-->0
axFastHttpProxyStatServerSelFail.2:-->0
axFastHttpProxyStatFwdReqFail.0:-->0
axFastHttpProxyStatFwdReqFail.1:-->1
axFastHttpProxyStatFwdReqFail.2:-->0
axFastHttpProxyStatFwdReqDataFail.0:-->0
```

```
axFastHttpProxyStatFwdReqDataFail.1:-->0
axFastHttpProxyStatFwdReqDataFail.2:-->0
axFastHttpProxyStatReqReTran.0:-->0
axFastHttpProxyStatReqReTran.1:-->0
axFastHttpProxyStatReqReTran.2:-->0
axFastHttpProxyStatReqPktOutOrder.0:-->0
axFastHttpProxyStatReqPktOutOrder.1:-->3
axFastHttpProxyStatReqPktOutOrder.2:-->3
axFastHttpProxyStatServerReSel.0:-->0
axFastHttpProxyStatServerReSel.1:-->0
axFastHttpProxyStatServerReSel.2:-->0
axFastHttpProxyStatServerPreMatureClose.0:-->0
axFastHttpProxyStatServerPreMatureClose.1:-->0
axFastHttpProxyStatServerPreMatureClose.2:-->0
axFastHttpProxyStatServerConnMade.0:-->144
axFastHttpProxyStatServerConnMade.1:-->253
axFastHttpProxyStatServerConnMade.2:-->122
```

axHttpProxyStats Objects

axHttpProxyStatTotalConn

Description Get the total number of proxy connections.

OID .1.3.6.1.4.1.22610.2.4.3.7.1

Example

```
axHttpProxyStatTotalConn.0:-->235
```

axHttpProxyStatTotalReq

Description Get the total number of HTTP requests.

OID .1.3.6.1.4.1.22610.2.4.3.7.2

Example

```
axHttpProxyStatTotalReq.0:-->45224
```

axHttpProxyStatTotalSuccReq

Description Get the total number of HTTP requests that resulted in successful connections.

OID .1.3.6.1.4.1.22610.2.4.3.7.3

Example

```
axHttpProxyStatTotalSuccReq.0:-->19
```

axHttpProxyStatTotalNoProxy

Description Get the total number of proxy failures.

OID .1.3.6.1.4.1.22610.2.4.3.7.4

Example

```
axHttpProxyStatTotalNoProxy.0:-->0
```

axHttpProxyStatTotalCRst

Description Get the total number of HTTP connections reset by clients.

OID .1.3.6.1.4.1.22610.2.4.3.7.5

Example

```
axHttpProxyStatTotalCRst.0:-->0
```

axHttpProxyStatTotalSRst

Description Get the total number of HTTP connections reset by servers.

OID .1.3.6.1.4.1.22610.2.4.3.7.6

Example

```
axHttpProxyStatTotalSRst.0:-->0
```

axHttpProxyStatTotalNoTuple

Description Get the total number of tuple errors.

OID .1.3.6.1.4.1.22610.2.4.3.7.7

Example

```
axHttpProxyStatTotalNoTuple.0:-->0
```

axHttpProxyStatTotalReqErr

Description Get the total number of request parser errors.

OID .1.3.6.1.4.1.22610.2.4.3.7.8

Example

```
axHttpProxyStatTotalReqErr.0:-->1
```

axHttpProxyStatTotalSvrSelErr

Description Get the total number of server selection failures.

OID .1.3.6.1.4.1.22610.2.4.3.7.9

Example

```
axHttpProxyStatTotalSvrSelErr.0:-->3
```

axHttpProxyStatTotalFwdReqErr

Description Get the total number of firewall request failures.

OID .1.3.6.1.4.1.22610.2.4.3.7.10

Example

```
axHttpProxyStatTotalFwdReqErr.0:-->0
```

axHttpProxyStatTotalFwdDataReqErr

Description Get the total number of firewall data request failures.

OID .1.3.6.1.4.1.22610.2.4.3.7.11

Example

```
axHttpProxyStatTotalFwdDataReqErr.0:-->0
```

axHttpProxyStatTotalReqReXmit

Description Get the total number of retransmitted HTTP requests.

OID .1.3.6.1.4.1.22610.2.4.3.7.12

Example

```
axHttpProxyStatTotalReqReXmit.0:-->0
```

axHttpProxyStatTotalReqPktOutOrder

Description Get the total number of request packets received out of order.

OID .1.3.6.1.4.1.22610.2.4.3.7.13

Example

```
axHttpProxyStatTotalReqPktOutOrder.0:-->0
```

axHttpProxyStatTotalSvrReSel

Description Get the total number of server re-selections due to failure of initial server selection.

OID .1.3.6.1.4.1.22610.2.4.3.7.14

Example

```
axHttpProxyStatTotalSvrReSel.0:-->0
```

axHttpProxyStatTotalPreMatureClose

Description Get the total number of prematurely closed selections.

OID .1.3.6.1.4.1.22610.2.4.3.7.15

Example

```
axHttpProxyStatTotalPreMatureClose.0:-->0
```

axHttpProxyStatTotalSvrConn

Description Get the total number of server connections.

OID .1.3.6.1.4.1.22610.2.4.3.7.16

Example

```
axHttpProxyStatTotalSvrConn.0:-->100
```

axHttpProxyStatTotalSNATErr

Description Get the total number of source NAT failures.

OID .1.3.6.1.4.1.22610.2.4.3.7.17

Example

```
axHttpProxyStatTotalSNATErr.0:-->0
```

axHttpProxyStatTable

Description Get the HTTP-proxy statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.7.18

Table 38 describes the fields in this table.

TABLE 38 axHttpProxyStatTable fields

Field	Description
axHttpProxyStatCpuIndex .1.1	CPU number.
axHttpProxyStatCurrProxyConns .1.2	Total number of current HTTP proxy connections.
axHttpProxyStatTotalProxyConns .1.3	Total number of HTTP proxy current connections.
axHttpProxyStatHttpReq .1.4	Total number of HTTP requests
axHttpProxyStatHttpReqSucc .1.5	Total number of HTTP requests that resulted in successful connections.
axHttpProxyStatNoProxyErr .1.6	Total number of proxy errors.
axHttpProxyStatClientRst .1.7	Total number of HTTP connections reset by clients.
axHttpProxyStatServerRst .1.8	Total number of HTTP connections reset by servers.
axHttpProxyStatNoTupleErr .1.9	Total number of tuple errors.
axHttpProxyStatParseReqFail .1.10	Total number of request parser errors.
axHttpProxyStatServerSelFail .1.11	Total number of server selection failures.

TABLE 38 axHttpProxyStatTable fields (Continued)

Field	Description
axHttpProxyStatFwdReqFail .1.12	Total number of forward request failures.
axHttpProxyStatFwdReqDataFail .1.13	Total number of forward request data failures.
axHttpProxyStatReqReTran .1.14	Total number of retransmitted HTTP requests.
axHttpProxyStatReqPktOutOrder .1.15	Total number of request packets received out of order.
axHttpProxyStatServerReSel .1.16	Total number of server reselections due to failure of initial server selection.
axHttpProxyStatServerPreMatureClose .1.17	Total number of prematurely closed server connections.
axHttpProxyStatServerConnMade .1.18	Total number of server connections made.

Use the axHttpProxyStatCpuIndex as the table index to locate an entry.

Example

```
axHttpProxyStatCurrProxyConns.0:-->0
axHttpProxyStatCurrProxyConns.1:-->2
axHttpProxyStatCurrProxyConns.2:-->2
axHttpProxyStatTotalProxyConns.0:-->0
axHttpProxyStatTotalProxyConns.1:-->6
axHttpProxyStatTotalProxyConns.2:-->7
axHttpProxyStatHttpReq.0:-->0
axHttpProxyStatHttpReq.1:-->8
axHttpProxyStatHttpReq.2:-->73
axHttpProxyStatHttpReqSucc.0:-->0
axHttpProxyStatHttpReqSucc.1:-->5
axHttpProxyStatHttpReqSucc.2:-->69
axHttpProxyStatNoProxyErr.0:-->0
axHttpProxyStatNoProxyErr.1:-->0
axHttpProxyStatNoProxyErr.2:-->0
axHttpProxyStatClientRst.0:-->0
axHttpProxyStatClientRst.1:-->3
axHttpProxyStatClientRst.2:-->4
axHttpProxyStatServerRst.0:-->0
axHttpProxyStatServerRst.1:-->1
axHttpProxyStatServerRst.2:-->1
axHttpProxyStatNoTupleErr.0:-->0
axHttpProxyStatNoTupleErr.1:-->0
axHttpProxyStatNoTupleErr.2:-->0
axHttpProxyStatParseReqFail.0:-->0
axHttpProxyStatParseReqFail.1:-->0
axHttpProxyStatParseReqFail.2:-->0
```

```
axHttpProxyStatServerSelFail.0:-->0
axHttpProxyStatServerSelFail.1:-->0
axHttpProxyStatServerSelFail.2:-->0
axHttpProxyStatFwdReqFail.0:-->0
axHttpProxyStatFwdReqFail.1:-->0
axHttpProxyStatFwdReqFail.2:-->0
axHttpProxyStatFwdReqDataFail.0:-->0
axHttpProxyStatFwdReqDataFail.1:-->0
axHttpProxyStatFwdReqDataFail.2:-->0
axHttpProxyStatReqReTran.0:-->0
axHttpProxyStatReqReTran.1:-->0
axHttpProxyStatReqReTran.2:-->0
axHttpProxyStatReqPktOutOrder.0:-->0
axHttpProxyStatReqPktOutOrder.1:-->0
axHttpProxyStatReqPktOutOrder.2:-->0
axHttpProxyStatServerReSel.0:-->0
axHttpProxyStatServerReSel.1:-->0
axHttpProxyStatServerReSel.2:-->0
axHttpProxyStatServerPreMatureClose.0:-->0
axHttpProxyStatServerPreMatureClose.1:-->0
axHttpProxyStatServerPreMatureClose.2:-->0
axHttpProxyStatServerConnMade.0:-->0
axHttpProxyStatServerConnMade.1:-->6
axHttpProxyStatServerConnMade.2:-->7
```

axTcpProxyStats Objects

axTcpProxyStatTotalCurrEstConn

Description Get the total number of currently established TCP connections.

OID .1.3.6.1.4.1.22610.2.4.3.8.1

Example

```
axTcpProxyStatTotalCurrEstConn.0:-->5
```

axTcpProxyStatTotalActiveOpenConn

Description Get the total number of actively opened TCP connections.

OID .1.3.6.1.4.1.22610.2.4.3.8.2

Example

```
axTcpProxyStatTotalActiveOpenConn.0:-->5
```

axTcpProxyStatTotalPassiveOpenConn

Description Get the total number of passively opened TCP connections.

OID .1.3.6.1.4.1.22610.2.4.3.8.3

Example

```
axTcpProxyStatTotalPassiveOpenConn.0:-->4
```

axTcpProxyStatTotalConnAttemptFail

Description Get the total number of connection attempt failures.

OID .1.3.6.1.4.1.22610.2.4.3.8.4

Example

```
axTcpProxyStatTotalConnAttemptFail.0:-->0
```

axTcpProxyStatTotalInTCPPacket

Description Get the total number of received TCP packets.

OID .1.3.6.1.4.1.22610.2.4.3.8.5

Example

```
axTcpProxyStatTotalInTCPPacket.0:-->52
```

axTcpProxyStatTotalOutTCPPkt

Description Get the total number of sent TCP packets.

OID .1.3.6.1.4.1.22610.2.4.3.8.6

Example

```
axTcpProxyStatTotalOutTCPPkt.0:-->2633
```

axTcpProxyStatTotalReXmitPkt

Description Get the total number of retransmitted packets.

OID .1.3.6.1.4.1.22610.2.4.3.8.7

Example

```
axTcpProxyStatTotalReXmitPkt.0:-->99
```

axTcpProxyStatTotalRstRcvOnEstConn

Description Get the total number of resets received for established connections.

OID .1.3.6.1.4.1.22610.2.4.3.8.8

Example

```
axTcpProxyStatTotalRstRcvOnEstConn.0:-->360
```

axTcpProxyStatTotalRstSent

Description Get the total number of resets sent.

OID .1.3.6.1.4.1.22610.2.4.3.8.9

Example

```
axTcpProxyStatTotalRstSent.0:-->0
```

axTCPProxyStatTable

Description Get the TCP-proxy statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.8.10

Table 39 describes the fields in this table.

TABLE 39 axTCPProxyStatTable fields

Field	Description
axTcpProxyStatCpuIndex .1.1	CPU number.
axTcpProxyStatCurrEstConns .1.2	Total number of currently established connections.
axTcpProxyStatActiveOpenConns .1.3	Total number of actively opened connections.
axTcpProxyStatPassiveOpenConns .1.4	Total number of passively opened connections.
axTcpProxyStatConnAttempFail .1.5	Total number of connection attempt failures.

TABLE 39 axTCPProxyStatTable fields (Continued)

Field	Description
axTcpProxyStatTotalInTCPPkt .1.6	Total number of packets received.
axTcpProxyStatTotalOutPkt .1.7	Total number of packets sent.
axTcpProxyStatReTranPkt .1.8	Total number of re-transmitted packets.
axTcpProxyStatRstRvdEstConn .1.9	Total number of resets received on established connections.
axTcpProxyStatRstSent .1.10	Total number of resets sent.
axTcpProxyStatInputErr .1.11	Total number of input errors.
axTcpProxyStatSocketAlloc .1.12	Total number of sockets allocated.
axTcpProxyStatOrphanSocket .1.13	Total number of orphan sockets.
axTcpProxyStatMemAlloc .1.14	Size of allocated memory used by TCP proxy.
axTcpProxyStatTotalRxBuf .1.15	Size of the receive buffer.
axTcpProxyStatTotalTxBuf .1.16	Size of the transmit buffer.
axTcpProxyStatTCPSYNSNTState .1.17	Total number of TCP connections in the SYN-SNT state.
axTcpProxyStatTCPSYNRCVState .1.18	Total number of TCP connections in the SYN-RCV state.
axTcpProxyStatTCPFINW1State .1.19	Total number of TCP connections in the FIN-W1 state.
axTcpProxyStatTCPFINW2State .1.20	Total number of TCP connections in the FIN-W2 state.
axTcpProxyStatTimeWstate .1.21	Total number of TCP connections in the TCP TimeW state.
axTcpProxyStatTCPCloseState .1.22	Total number of TCP connections in the close state.
axTcpProxyStatTCPCloseWState .1.23	Total number of TCP connections in the closeW state.
axTcpProxyStatTCPLastACKState .1.24	Total number of TCP connections in the lastACK state.
axTcpProxyStatTCPListenState .1.25	Total number of TCP connections in the listen state.

TABLE 39 axTCPProxyStatTable fields (Continued)

Field	Description
axTcpProxyStatTCPClosingState .1.26	Total number of TCP connections in the closing state.

Use the axTcpProxyStatCpuIndex as the table index to locate an entry.

Example

```
axTcpProxyStatCurrEstConns.0:-->0
axTcpProxyStatCurrEstConns.1:-->2
axTcpProxyStatCurrEstConns.2:-->1
axTcpProxyStatActiveOpenConns.0:-->0
axTcpProxyStatActiveOpenConns.1:-->6
axTcpProxyStatActiveOpenConns.2:-->7
axTcpProxyStatPassiveOpenConns.0:-->0
axTcpProxyStatPassiveOpenConns.1:-->6
axTcpProxyStatPassiveOpenConns.2:-->7
axTcpProxyStatConnAttempFail.0:-->0
axTcpProxyStatConnAttempFail.1:-->0
axTcpProxyStatConnAttempFail.2:-->0
axTcpProxyStatTotalInTCPPkt.0:-->0
axTcpProxyStatTotalInTCPPkt.1:-->54
axTcpProxyStatTotalInTCPPkt.2:-->1167
axTcpProxyStatTotalOutPkt.0:-->0
axTcpProxyStatTotalOutPkt.1:-->62
axTcpProxyStatTotalOutPkt.2:-->1359
axTcpProxyStatReTranPkt.0:-->0
axTcpProxyStatReTranPkt.1:-->0
axTcpProxyStatReTranPkt.2:-->1
axTcpProxyStatRstRvdEstConn.0:-->0
axTcpProxyStatRstRvdEstConn.1:-->8
axTcpProxyStatRstRvdEstConn.2:-->10
axTcpProxyStatRstSent.0:-->0
axTcpProxyStatRstSent.1:-->4
axTcpProxyStatRstSent.2:-->5
axTcpProxyStatInputErr.0:-->0
axTcpProxyStatInputErr.1:-->0
axTcpProxyStatInputErr.2:-->0
axTcpProxyStatSocketAlloc.0:-->0
axTcpProxyStatSocketAlloc.1:-->4
axTcpProxyStatSocketAlloc.2:-->2
axTcpProxyStatOrphanSocket.0:-->0
axTcpProxyStatOrphanSocket.1:-->0
axTcpProxyStatOrphanSocket.2:-->0
axTcpProxyStatMemAlloc.0:-->0
axTcpProxyStatMemAlloc.1:-->0
axTcpProxyStatMemAlloc.2:-->0
axTcpProxyStatTotalRxBuf.0:-->0
axTcpProxyStatTotalRxBuf.1:-->0
```

```
axTcpProxyStatTotalRxBuf.2:-->0
axTcpProxyStatTotalTxBuf.0:-->0
axTcpProxyStatTotalTxBuf.1:-->0
axTcpProxyStatTotalTxBuf.2:-->0
axTcpProxyStatTCPSYNSNTState.0:-->0
axTcpProxyStatTCPSYNSNTState.1:-->0
axTcpProxyStatTCPSYNSNTState.2:-->0
axTcpProxyStatTCPSYNRCVState.0:-->0
axTcpProxyStatTCPSYNRCVState.1:-->0
axTcpProxyStatTCPSYNRCVState.2:-->0
axTcpProxyStatTCPFINW1State.0:-->0
axTcpProxyStatTCPFINW1State.1:-->0
axTcpProxyStatTCPFINW1State.2:-->0
axTcpProxyStatTCPFINW2State.0:-->0
axTcpProxyStatTCPFINW2State.1:-->0
axTcpProxyStatTCPFINW2State.2:-->0
axTcpProxyStatTimeWstate.0:-->0
axTcpProxyStatTimeWstate.1:-->0
axTcpProxyStatTimeWstate.2:-->0
axTcpProxyStatTCPCloseState.0:-->0
axTcpProxyStatTCPCloseState.1:-->8
axTcpProxyStatTCPCloseState.2:-->12
axTcpProxyStatTCPCloseWState.0:-->0
axTcpProxyStatTCPCloseWState.1:-->2
axTcpProxyStatTCPCloseWState.2:-->1
axTcpProxyStatTCPLastACKState.0:-->0
axTcpProxyStatTCPLastACKState.1:-->0
axTcpProxyStatTCPLastACKState.2:-->0
axTcpProxyStatTCPListenState.0:-->0
axTcpProxyStatTCPListenState.1:-->0
axTcpProxyStatTCPListenState.2:-->0
axTcpProxyStatTCPClosingState.0:-->0
axTcpProxyStatTCPClosingState.1:-->0
axTcpProxyStatTCPClosingState.2:-->0
```

axSslStats Objects

axSslStatSSLModNum

Description Get the number of SSL modules in the AX device.

OID .1.3.6.1.4.1.22610.2.4.3.9.1

Example

```
axSslStatSSLModNum.0:-->1
```

axSslStatCurrSSLConn

Description Get the number of current SSL connections.

OID .1.3.6.1.4.1.22610.2.4.3.9.2

Example

```
axSslStatCurrSSLConn.0:-->3
```

axSslStatTotalSSLConn

Description Get the total number of SSL connections.

OID .1.3.6.1.4.1.22610.2.4.3.9.3

Example

```
axSslStatTotalSSLConn.0:-->3
```

axSslStatFailSSLHandshake

Description Get the number of failed SSL handshakes.

OID .1.3.6.1.4.1.22610.2.4.3.9.4

Example

```
axSslStatFailSSLHandshake.0:-->12
```

axSslStatSSLMemUsage

Description Get the amount of SSL memory in use. The SSL memory is measured in bytes.

OID .1.3.6.1.4.1.22610.2.4.3.9.5

Example

```
axSslStatSSLMemUsage.0:-->0
```

axSslStatTable

Description Get the SSL statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.9.6

Table 40 describes the fields in this table.

TABLE 40 axSslStatTable fields

Field	Description
axSslStatModuleIndex .1.1	SSL module number.
axSslStatEnableCryptoEngine .1.2	Total number of enabled encryption/decryption engines.
axSslStatAvailCryptoEngine .1.3	Total number of available encryption/decryption engines.

Use the axSslStatModuleIndex as the table index to locate an entry.

Example

```
axSslStatEnableCryptoEngine.1:-->4
axSslStatAvailCryptoEngine.1:-->4
```

axSslStatSSLFailedCAVfy

Description Get the number of times an SSL session was terminated due to a certificate verification failure.

OID .1.3.6.1.4.1.22610.2.4.3.9.7

axSslStatSSLNoHWContextMem

Description Indicates the number of times the encryption processor was unable to allocate memory.

OID .1.3.6.1.4.1.22610.2.4.3.9.8

Note: This object and the following object replace the axSslStatEnableCryptoEngine and axSslStatAvailCryptoEngine objects at this level. However, those objects are still available as members of the axSslStatTable (.1.3.6.1.4.1.22610.2.4.3.9.6).

axSslStatSSLHWRingFull

Description Indicates the number of times the AX software was unable to enqueue an SSL record to the SSL processor for encryption/decryption. (Essentially, this is the number of times the processor reached its performance limit.)

OID .1.3.6.1.4.1.22610.2.4.3.9.9

axSslStatSSLFailedCryptoOperation

Description Indicates the number of times an SSL encryption or decryption operation has failed.

OID .1.3.6.1.4.1.22610.2.4.3.9.10

axFtpStats Objects

axFtpStatTotalCtrlSession

Description Get the total number of FTP control sessions.

OID .1.3.6.1.4.1.22610.2.4.3.10.1

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.10.1.0 = INTEGER: 0
```

axFtpStatTotalALGPkt

Description Get the total number of FTP application-level gateway (ALG) packets.

OID .1.3.6.1.4.1.22610.2.4.3.10.2

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.10.2.0 = INTEGER: 0
```

axFtpStatALGPktReXmit

Description Get the total number of retransmitted FTP ALG packets.

OID .1.3.6.1.4.1.22610.2.4.3.10.3

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.10.3.0 = INTEGER: 0
```

axFtpStatOutConnCtrl

Description Get the total number of out-of-connection FTP control connection entries.

OID .1.3.6.1.4.1.22610.2.4.3.10.4

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.10.4.0 = INTEGER: 0
```

axFtpStatTotalDataSession

Description Get the total number of FTP data sessions.

OID .1.3.6.1.4.1.22610.2.4.3.10.5

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.10.5.0 = INTEGER: 0
```

axFtpStatOutConnData

Description Get the total number of out-of-connection FTP data connection entries.

OID 1.3.6.1.4.1.22610.2.4.3.10.6

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.10.6.0 = INTEGER: 0
```

axNetStats Objects

axNetStatIPOutNoRoute

Description Get the number of routing failures.

OID .1.3.6.1.4.1.22610.2.4.3.11.1

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.1.0 = INTEGER: 0
```

axNetStatTCPOutRst

Description Get the number of outbound TCP resets.

OID .1.3.6.1.4.1.22610.2.4.3.11.2

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.2.0 = INTEGER: 0
```

axNetStatTCPSynRcv

Description Get the number of TCP SYN packets received.

OID .1.3.6.1.4.1.22610.2.4.3.11.3

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.3.0 = INTEGER: 0
```

axNetStatTCPSYNCookieSent

Description Get the number of TCP SYN cookies sent.

OID .1.3.6.1.4.1.22610.2.4.3.11.4

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.4.0 = INTEGER: 0
```

axNetStatTCPSYNCookieFail

Description Get the number of TCP SYN cookie failures.

OID .1.3.6.1.4.1.22610.2.4.3.11.5

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.5.0 = INTEGER: 0
```

axNetStatTCPReceive

Description Get the number of TCP packets received.

OID .1.3.6.1.4.1.22610.2.4.3.11.6

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.6.0 = INTEGER: 0
```

axNetStatUDPReceive

Description Get the number of UDP packets received.

OID .1.3.6.1.4.1.22610.2.4.3.11.7

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.7.0 = INTEGER: 0
```

axNetStatServerSelFail

Description Get the number of times selection of a real server failed.

OID .1.3.6.1.4.1.22610.2.4.3.11.8

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.8.0 = INTEGER: 0
```

axNetStatSourceNATFail

Description Get the number of times a source NAT failure occurred.

OID .1.3.6.1.4.1.22610.2.4.3.11.9

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.9.0 = INTEGER: 0
```

axNetStatTCPSynCookieFail

Description Get the number of times a TCP SYN cookie failure occurred.

OID .1.3.6.1.4.1.22610.2.4.3.11.10

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.10.0 = INTEGER: 0
```

axNetStatNoVportDrop

Description Get the number of times traffic was dropped because the requested virtual port was not available.

OID .1.3.6.1.4.1.22610.2.4.3.11.11

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.11.0 = INTEGER: 0
```

axNetStatNoSynPktDrop

Description Get the number of SYN packets dropped.

OID .1.3.6.1.4.1.22610.2.4.3.11.12

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.12.0 = INTEGER: 0
```

axNetStatConnLimitDrop

Description Get the number of packets dropped because the server connection limit had been reached.

OID .1.3.6.1.4.1.22610.2.4.3.11.13

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.13.0 = INTEGER: 0
```

axNetStatConnLimitReset

Description Get the number of connections reset because the server connection limit had been reached.

OID .1.3.6.1.4.1.22610.2.4.3.11.14

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.14.0 = INTEGER: 0
```

axNetStatProxyNoSockDrop

Description Get the number of packets dropped because the proxy did not have an available socket.

OID .1.3.6.1.4.1.22610.2.4.3.11.15

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.15.0 = INTEGER: 0
```

axNetStatAFleXDrop

Description Get the number of packets dropped due to an aFleX policy.

OID .1.3.6.1.4.1.22610.2.4.3.11.16

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.16.0 = INTEGER: 0
```

axNetStatSessionAgingOut

Description Get the number of sessions that have aged out.

OID .1.3.6.1.4.1.22610.2.4.3.11.17

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.17.0 = INTEGER: 0
```

axNetStatTCPNoSLB

Description Get the number of non-SLB TCP packets.

OID .1.3.6.1.4.1.22610.2.4.3.11.18

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.18.0 = INTEGER: 0
```

axNetStatUDPNoSLB

Description Get the number of non-SLB UDP packets.

OID .1.3.6.1.4.1.22610.2.4.3.11.19

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.19.0 = INTEGER: 0
```

axNetStatTCPOutRSTNoSYN

Description Get the number of Resets sent for which there was no SYN.

OID .1.3.6.1.4.1.22610.2.4.3.11.20

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.20.0 = INTEGER: 0
```

axNetStatTCPOutRSTL4Proxy

Description Get the number of TCP Reset packets the AX device has sent as a Layer 4 proxy.

OID .1.3.6.1.4.1.22610.2.4.3.11.21

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.21.0 = INTEGER: 0
```

axNetStatTCPOutRSTACKattack

Description Get the number of TCP Resets sent in response to a TCP ACK attack.

OID .1.3.6.1.4.1.22610.2.4.3.11.22

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.22.0 = INTEGER: 0
```

axNetStatTCPOutRSTAFleX

Description Get the number of TCP Reset packets the AX device has sent due to an aFleX policy.

OID .1.3.6.1.4.1.22610.2.4.3.11.23

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.23.0 = INTEGER: 0
```

axNetStatTCPOutRSTStaleSess

Description Get the number of TCP Reset packets the AX device has sent due to stale TCP sessions.

OID .1.3.6.1.4.1.22610.2.4.3.11.24

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.24.0 = INTEGER: 0
```

axNetStatTCPOutRSTProxy

Description Get the number of TCP Reset packets the AX device has sent as a TCP proxy.

OID .1.3.6.1.4.1.22610.2.4.3.11.25

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.25.0 = INTEGER: 0
```

axNetStatNoSYNPktDropFIN

Description Get the number of SYN packets dropped due to a TCP FIN.

OID .1.3.6.1.4.1.22610.2.4.3.11.26

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.26.0 = INTEGER: 0
```

axNetStatNoSYNPktDropRST

Description Get the number of SYN packets dropped due to a TCP Reset.

OID .1.3.6.1.4.1.22610.2.4.3.11.27

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.27.0 = INTEGER: 0
```

axNetStatNoSYNPktDropACK

Description Get the number of SYN packets dropped due to an ACK.

OID .1.3.6.1.4.1.22610.2.4.3.11.28

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.28.0 = INTEGER: 0
```

axNetStatSYNThrotte

Description Get the number of SYN packets that were throttled.

OID .1.3.6.1.4.1.22610.2.4.3.11.29

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.29.0 = INTEGER: 0
```

axNetStatSSLSIDPersistSucc

Description Get the number of successful SSL session-ID persistence sessions.

OID .1.3.6.1.4.1.22610.2.4.3.11.30

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.30.0 = INTEGER: 0
```

axNetStatSSLSIDPersistFail

Description Get the number of failed SSL session-ID persistence attempts.

OID .1.3.6.1.4.1.22610.2.4.3.11.31

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.31.0 = INTEGER: 0
```

axNetStatClientSSLSIDNotFound

Description Get the number of times a client-SSL session ID was not found.

OID .1.3.6.1.4.1.22610.2.4.3.11.32

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.32.0 = INTEGER: 0
```

axNetStatClientSSLSIDMatch

Description Get the number of client-SSL session ID matches.

OID .1.3.6.1.4.1.22610.2.4.3.11.33

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.33.0 = INTEGER: 0
```

axNetStatClientSSLSIDNotMatch

Description Get the number of client-SSL session ID mismatches.

OID .1.3.6.1.4.1.22610.2.4.3.11.34

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.34.0 = INTEGER: 0
```

axNetStatServerSSLSIDNotFound

Description Get the number of times a server-SSL session ID was not found.

OID .1.3.6.1.4.1.22610.2.4.3.11.35

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.35.0 = INTEGER: 0
```

axNetStatServerSSLSIDReset

Description Get the number of times a server-SSL session ID was reset.

OID .1.3.6.1.4.1.22610.2.4.3.11.36

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.36.0 = INTEGER: 0
```

axNetStatServerSSLSIDMatch

Description Get the number of server-SSL session ID matches.

OID .1.3.6.1.4.1.22610.2.4.3.11.37

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.37.0 = INTEGER: 0
```

axNetStatServerSSLSIDNotMatch

Description Get the number of server-SSL session ID mismatches.

OID .1.3.6.1.4.1.22610.2.4.3.11.38

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.38.0 = INTEGER: 0
```

axNetStatCreateSSLSIDSucc

Description Get the number of SSL session IDs that have been created successfully.

OID .1.3.6.1.4.1.22610.2.4.3.11.39

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.39.0 = INTEGER: 0
```

axNetStatCreateSSLSIDFail

Description Get the number of failed attempts to create an SSL session ID.

OID .1.3.6.1.4.1.22610.2.4.3.11.40

Example

```
SNMPv2-SMI::enterprises.22610.2.4.3.11.40.0 = INTEGER: 0
```

axNetStatConnRateLimitDrops

Description Get the number of connections dropped by connection rate limiting.

OID .1.3.6.1.4.1.22610.2.4.3.11.41

axNetStatConnRateLimitResets

Description Get the number of connections reset by connection rate limiting.

OID .1.3.6.1.4.1.22610.2.4.3.11.42

axNetStatInbandHMRetry

Description Get the number of times the AX device retried an inband health check, because a SYN-ACK was not received for the previous SYN.

OID .1.3.6.1.4.1.22610.2.4.3.11.43

axNetStatInbandHMReassign

Description Get the number of times the AX device reassigned a client's traffic to another server, because the initial server exceeded the maximum number of retries allowed by the inband health check.

OID .1.3.6.1.4.1.22610.2.4.3.11.44

axNetStat2TCPReceive

Description Get the number of TCP packets received in the 64-bit counter.

OID .1.3.6.1.4.1.22610.2.4.3.11.45

axNetStat2UDPReceive

Description Get the number of UDP packets received in the 64-bit counter.

OID .1.3.6.1.4.1.22610.2.4.3.11.46

axNetStatTable

Description Get SLB network statistics.

Note: You also can get these statistics on an individual basis, by getting OIDs .1.3.6.1.4.1.22610.2.4.3.11.1 through 30. (See above.)

OID .1.3.6.1.4.1.22610.2.4.3.11.100

Table 41 describes the fields in this table.

TABLE 41 axNetStatTable fields

Field	Description
axNetStatCpuIndex .1.1	Module index of the network statistics table.
axNetStatIPOutNoRt .1.2	Number of routing failures.
axNetStatTCPOutReset .1.3	Number of outbound TCP resets.
axNetStatTCPSynRecv .1.4	Number of TCP SYN packets received.
axNetStatTCPSYNCookieSnt .1.5	Number of TCP SYN cookies sent.

TABLE 41 axNetStatTable fields (Continued)

Field	Description
axNetStatTCPSYNCookieSntFail .1.6	Number of TCP SYN cookie failures.
axNetStatTCPRcv .1.7	Number of TCP packets received.
axNetStatUDPRcv .1.8	Number of UDP packets received.
axNetStatServerSelFails .1.9	Number of times selection of a real server failed.
axNetStatSourceNATFails .1.10	Number of times a source NAT failure occurred.
axNetStatTCPSynCookieFails .1.11	Number of times a TCP SYN cookie failure occurred.
axNetStatNoVportDrops .1.12	Number of times traffic was dropped because the requested virtual port was not available.
axNetStatNoSynPktDrops .1.13	Number of SYN packets dropped.
axNetStatConnLimitDrops .1.14	Number of packets dropped because the server connection limit had been reached.
axNetStatConnLimitResets .1.15	Number of connections reset because the server connection limit had been reached.
axNetStatProxyNoSockDrops .1.16	Number of packets dropped because the proxy did not have an available socket.
axNetStatAFleXDrops .1.17	Number of packets dropped due to an aFleX policy.
axNetStatSessionsAgingOut .1.18	Number of sessions that have aged out.
axNetStatTCPsNoSLB .1.19	Number of non-SLB TCP packets.
axNetStatUDPsNoSLB .1.20	Number of non-SLB UDP packets.
axNetStatEntryTCPOutRSTNoSYN .1.21	Number of Resets sent for which there was no SYN.
axNetStatEntryTCPOutRSTL4Proxy .1.22	Number of TCP Reset packets the AX device has sent as a Layer 4 proxy.
axNetStatEntryTCPOutRSTACKattack .1.23	Number of TCP Resets sent in response to a TCP ACK attack.
axNetStatEntryTCPOutRSTAFleX .1.24	Number of TCP Reset packets the AX device has sent due to an aFleX policy.
axNetStatEntryTCPOutRSTStaleSess .1.25	Number of TCP Reset packets the AX device has sent due to stale TCP sessions.

TABLE 41 axNetStatTable fields (Continued)

Field	Description
axNetStatEntryTCPOutRSTProxy .1.26	Number of TCP Reset packets the AX device has sent as a TCP proxy.
axNetStatEntryNoSYNPktDropFIN .1.27	Number of SYN packets dropped due to a TCP FIN.
axNetStatEntryNoSYNPktDropRST .1.28	Number of SYN packets dropped due to a TCP Reset.
axNetStatEntryNoSYNPktDropACK .1.29	Number of SYN packets dropped due to an ACK.
axNetStatEntrySYNThrotte .1.30	Number of SYN packets that were throttled.
axNetStatEntrySSLSIDPersistSucc .1.31	Number of successful SSL session-ID persistence sessions.
axNetStatEntrySSLSIDPersistFail .1.32	Number of failed SSL session-ID persistence attempts.
axNetStatEntryClientSSLSIDNotFound .1.33	Number of times a client-SSL session ID was not found.
axNetStatEntryClientSSLSIDMatch .1.34	Number of client-SSL session ID matches.
axNetStatEntryClientSSLSIDNotMatch .1.35	Number of client-SSL session ID mismatches.
axNetStatEntryServerSSLSIDNotFound .1.36	Number of times a server-SSL session ID was not found.
axNetStatEntryServerSSLSIDReset .1.37	Number of times a server-SSL session ID was reset.
axNetStatEntryServerSSLSIDMatch .1.38	Number of server-SSL session ID matches.
axNetStatEntryServerSSLSIDNotMatch .1.39	Number of server-SSL session ID mismatches.
axNetStatEntryCreateSSLSIDSucc .1.40	Number of SSL session IDs that have been created successfully.
axNetStatEntryCreateSSLSIDFail .1.41	Number of failed attempts to create an SSL session ID.
axNetStatEntryConnRateLimitDrops .1.42	Number of connections dropped by connection rate limiting.
axNetStatEntryConnRateLimitResets .1.43	Number of connections reset by connection rate limiting.
axNetStatEntryInbandHMRetry .1.44	Number of times the AX device retried an inband health check, because a SYN-ACK was not received for the previous SYN.

TABLE 41 axNetStatTable fields (Continued)

Field	Description
axNetStatEntryInbandHMReassign .1.45	Number of times the AX device reassigned a client's traffic to another server, because the initial server exceeded the maximum number of retries allowed by the inband health check.

axNotification Objects

The notification objects are described in "AX MIB Objects: axNotification" on page 155.

axSmtpProxyStats Objects

axSmtpProxyStatsCurrProxyConns

Description Get the number of currently active SMTP connections that are using the AX device as an SMTP proxy.

OID `.1.3.6.1.4.1.22610.2.4.3.13.1`

axSmtpProxyStatsTotalProxyConns

Description Get the total number of SMTP connections that have used the AX device as an SMTP proxy.

OID `.1.3.6.1.4.1.22610.2.4.3.13.2`

axSmtpProxyStatsSmtpRequests

Description Get the total number of SMTP requests received by the SMTP proxy.

OID `.1.3.6.1.4.1.22610.2.4.3.13.3`

axSmtpProxyStatsSmtpReqSuccs

Description Get the number of SMTP requests received by the AX device that were successfully fulfilled (by connection to a real server).

OID `.1.3.6.1.4.1.22610.2.4.3.13.4`

axSmtpProxyStatsNoProxyError

Description Get the number of proxy errors.

OID .1.3.6.1.4.1.22610.2.4.3.13.5

axSmtpProxyStatsClientRST

Description Get the number of times TCP connections with clients were reset.

OID .1.3.6.1.4.1.22610.2.4.3.13.6

axSmtpProxyStatsServerRST

Description Get the number of times TCP connections with servers were reset.

OID .1.3.6.1.4.1.22610.2.4.3.13.7

axSmtpProxyStatsNoTupleError

Description Get the number of tuple errors.

OID .1.3.6.1.4.1.22610.2.4.3.13.8

axSmtpProxyStatsParseReqFail

Description Get the number of times parsing of an SMTP request failed.

OID .1.3.6.1.4.1.22610.2.4.3.13.9

axSmtpProxyStatsServerSelFail

Description Get the number of times selection of a real server failed.

OID .1.3.6.1.4.1.22610.2.4.3.13.10

axSmtpProxyStatsFwdReqFail

Description Get the number of forward request failures.

OID .1.3.6.1.4.1.22610.2.4.3.13.11

axSmtpProxyStatsFwdReqDataFail

Description Get the number of forward request data failures.

OID .1.3.6.1.4.1.22610.2.4.3.13.12

axSmtpProxyStatsReqRetrans

Description Get the number of retransmitted requests.

OID .1.3.6.1.4.1.22610.2.4.3.13.13

axSmtpProxyStatsReqPktOutOrder

Description Get the number of request packets received from clients out of sequence.

OID .1.3.6.1.4.1.22610.2.4.3.13.14

axSmtpProxyStatsServerResel

Description Get the number of times a request was forwarded to another server because the current server was failing.

OID .1.3.6.1.4.1.22610.2.4.3.13.15

axSmtpProxyStatsSvrPrematureClose

Description Get the number of times the connection with a server closed prematurely.

OID .1.3.6.1.4.1.22610.2.4.3.13.16

axSmtpProxyStatsSvrConnMade

Description Get the number of connections made with servers.

OID .1.3.6.1.4.1.22610.2.4.3.13.17

axSmtpProxyStatsSNATFail

Description Get the number of source NAT failures.

OID .1.3.6.1.4.1.22610.2.4.3.13.18

axSmtpProxyStatTable

Description Get the SMTP proxy statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.13.19

Table 42 describes the fields in this table.

TABLE 42 axSmtpProxyStatTable fields

Field	Description
axSmtpProxyStatCpuIndex .1.1	Module index of the SMTP proxy statistics table.
axSmtpProxyStatCurrProxyConn .1.2	Number of currently active SMTP connections using the AX device as an SMTP proxy.
axSmtpProxyStatTotalProxyConn .1.3	Total number of SMTP connections that have used the AX device as an SMTP proxy.
axSmtpProxyStatSmtpReq .1.4	Total number of SMTP requests received by the SMTP proxy.
axSmtpProxyStatSmtpReqSucc .1.5	Number of SMTP requests received by the AX device that were successfully fulfilled (by connection to a real server).
axSmtpProxyStatNoProxyError .1.6	Number of proxy errors.
axSmtpProxyStatClientRST .1.7	Number of times TCP connections with clients were reset.
axSmtpProxyStatServerRST .1.8	Number of times TCP connections with servers were reset.
axSmtpProxyStatNoTupleError .1.9	Number of tuple errors.
axSmtpProxyStatParseReqFail .1.10	Number of times parsing of an SMTP request failed.
axSmtpProxyStatServerSelFail .1.11	Number of times selection of a real server failed.
axSmtpProxyStatFwdReqFail .1.12	Number of forward request failures.
axSmtpProxyStatFwdReqDataFail .1.13	Number of forward request data failures.
axSmtpProxyStatReqRetrans .1.14	Number of retransmitted requests.
axSmtpProxyStatReqPktOutOrder .1.15	Number of request packets received from clients out of sequence.
axSmtpProxyStatServerResel .1.16	Number of times a request was forwarded to another server because the current server was failing.

TABLE 42 axSmtpProxyStatTable fields (Continued)

Field	Description
axSmtpProxyStatSvrPrematureClose .1.17	Number of times the connection with a server closed prematurely.
axSmtpProxyStatSvrConnMade .1.18	Number of connections made with servers.
axSmtpProxyStatSNATFail .1.19	Number of source NAT failures.

axSslProxyStats Objects

axSslProxyStatsCurrProxyConns

Description Get the number of currently active connections using the AX device as an SSL proxy.

OID `.1.3.6.1.4.1.22610.2.4.3.14.1`

axSslProxyStatsTotalProxyConns

Description Get the total number of connections using the AX device as an SSL proxy.

OID `.1.3.6.1.4.1.22610.2.4.3.14.2`

axSslProxyStatsClientErr

Description Get the number of client errors.

OID `.1.3.6.1.4.1.22610.2.4.3.14.3`

axSslProxyStatsServerErr

Description Get the number of server errors.

OID `.1.3.6.1.4.1.22610.2.4.3.14.4`

axSslProxyStatsSessNotFound

Description Get the number of times a session was not found.

OID .1.3.6.1.4.1.22610.2.4.3.14.5

axSslProxyStatsNoRoute

Description Get the number of times no route was available.

OID .1.3.6.1.4.1.22610.2.4.3.14.6

axSslProxyStatsSvrSelFail

Description Get the number of times selection or a real server failed.

OID .1.3.6.1.4.1.22610.2.4.3.14.7

axSslProxyStatsSNATFail

Description Get the number of occurrences of source NAT failure.

OID .1.3.6.1.4.1.22610.2.4.3.14.8

axPersistentStats Objects

axPersistentStatsUrlHashPersistOKPri

Description Get the number of requests successfully sent to the primary server selected by URL hashing. The primary server is the one that was initially selected and then re-used based on the hash value.

OID .1.3.6.1.4.1.22610.2.4.3.15.1

axPersistentStatsUrlHashPersistOKSec

Description Get the number of requests that were sent to another server (a secondary server) because the primary server selected by URL hashing was unavailable.

OID .1.3.6.1.4.1.22610.2.4.3.15.2

axPersistentStatsUrlHashPersistFail

Description Get the number of requests that could not be fulfilled using URL hashing.

OID .1.3.6.1.4.1.22610.2.4.3.15.3

axPersistentStatsSIPPersistOK

Description Get the number of requests successfully sent to the same server as previous requests from the same client, based on source-IP persistence.

OID .1.3.6.1.4.1.22610.2.4.3.15.4

axPersistentStatsSIPPersistFail

Description Get the number of requests that could not be fulfilled by the same server as previous requests from the same client, based on source-IP persistence.

OID .1.3.6.1.4.1.22610.2.4.3.15.5

axPersistentStatsSSLSIDPersistOK

Description Get the total number of SSL session ID persistence successes.

OID .1.3.6.1.4.1.22610.2.4.3.15.6

axPersistentStatsSSLSIDPersistFail

Description Get the total number of SSL session ID persistence failures.

OID .1.3.6.1.4.1.22610.2.4.3.15.7

axPersistentStatsCookiePersistOK

Description Get the total number of cookie persistence successes.

OID .1.3.6.1.4.1.22610.2.4.3.15.8

axPersistentStatsCookiePersistFail

Description Get the total number of cookie persistence failures.

OID .1.3.6.1.4.1.22610.2.4.3.15.9

axPersistentStatsPersistCookieNotFound

Description Get the total number of cookie persistence failures in cases where a cookie could not be found.

OID .1.3.6.1.4.1.22610.2.4.3.15.10

axPersistentStatTable

Description Get the persistence statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.15.11

Table 43 describes the fields in this table.

TABLE 43 axPersistentStatTable fields

Field	Description
axPersistentStatCpuIndex .1.1	CPU index of the persistence statistics table.
axPersistentStatUrlHashPersistOKPri .1.2	Number of requests successfully sent to the primary server selected by URL hashing. The primary server is the one that was initially selected and then re-used based on the hash value.
axPersistentStatUrlHashPersistOKSec .1.3	Number of requests that were sent to another server (a secondary server) because the primary server selected by URL hashing was unavailable.
axPersistentStatUrlHashPersistFail .1.4	Number of requests that could not be fulfilled using URL hashing.
axPersistentStatSIPPersistOK .1.5	Number of requests successfully sent to the same server as previous requests from the same client, based on source-IP persistence.
axPersistentStatSIPPersistFail .1.6	Number of requests that could not be fulfilled by the same server as previous requests from the same client, based on source-IP persistence.
axPersistentStatSSLSIDPersistOK .1.7	Number of SSL session ID persistence successes.
axPersistentStatSSLSIDPersistFail .1.8	Number of SSL session ID persistence failures.
axPersistentStatCookiePersistOK .1.9	Number of cookie persistence successes.
axPersistentStatCookiePersistFail .1.10	Number of cookie persistence failures.
axPersistentStatPersistCookieNotFound .1.11	Number of cookie persistent failure in not-found cases.

axSwitchStats Objects

axSwitchStatsL2Forward

Description Get the number of packets that have been Layer-2 switched.

OID .1.3.6.1.4.1.22610.2.4.3.16.1

axSwitchStatsL3IPForward

Description Get the number of packets that have been Layer-3 routed.

OID .1.3.6.1.4.1.22610.2.4.3.16.2

axSwitchStatsIPv4NoRouteDrop

Description Get the number of IPv4 packets that were dropped due to routing failures.

OID .1.3.6.1.4.1.22610.2.4.3.16.3

axSwitchStatsL3IPv6Forward

Description Get the number of IPv6 packets that have been Layer-3 routed.

OID .1.3.6.1.4.1.22610.2.4.3.16.4

axSwitchStatsIPv6NoRouteDrop

Description Get the number of IPv6 packets that were dropped due to routing failures.

OID .1.3.6.1.4.1.22610.2.4.3.16.5

axSwitchStatsL4Process

Description Get the number of packets that went to a VIP or NAT for processing.

OID .1.3.6.1.4.1.22610.2.4.3.16.6

axSwitchStatsIncorrectLenDrop

Description Get the number of packets dropped due to incorrect protocol length.A high value for this counter can indicate a packet length attack.

OID .1.3.6.1.4.1.22610.2.4.3.16.7

axSwitchStatsProtoDownDrop

Description Get the number of packets dropped because the corresponding protocol was disabled.

OID .1.3.6.1.4.1.22610.2.4.3.16.8

axSwitchStatsUnknownProtoDrop

Description Get the number of packets dropped because the protocol was unknown.

OID .1.3.6.1.4.1.22610.2.4.3.16.9

axSwitchStatsTTLExceedDrop

Description Get the number of packets dropped due to TTL expiration.

OID .1.3.6.1.4.1.22610.2.4.3.16.10

axSwitchStatsLinkdownDrop

Description Get the number of packets dropped because the outgoing link was down.

OID .1.3.6.1.4.1.22610.2.4.3.16.11

axSwitchStatsSRCPortSuppress

Description Get the number of packet drops because of source port suppression.

OID .1.3.6.1.4.1.22610.2.4.3.16.12

axSwitchStatsVLANFlood

Description Get the number of packets that have been broadcast to a VLAN.

OID .1.3.6.1.4.1.22610.2.4.3.16.13

axSwitchStatsIPFragRcv

Description Get the number of IPv4 fragments that have been received.

OID .1.3.6.1.4.1.22610.2.4.3.16.14

axSwitchStatsARPReqRcv

Description Get the number of ARP requests that have been received.

OID .1.3.6.1.4.1.22610.2.4.3.16.15

axSwitchStatsARPRespRcv

Description Get the number of ARP responses that have been received.

OID .1.3.6.1.4.1.22610.2.4.3.16.16

axSwitchStatsFwdKernel

Description Get the number of packets received by the kernel from data interfaces.

OID .1.3.6.1.4.1.22610.2.4.3.16.17

axSwitchStatsIPTCPFragRcv

Description Get the number of IP TCP fragments received.

OID .1.3.6.1.4.1.22610.2.4.3.16.18

axSwitchStatsIPFragOverlap

Description Get the number of overlapping fragments received.

OID .1.3.6.1.4.1.22610.2.4.3.16.19

axSwitchStatsIPFragOverlapDrop

Description Get the number of fragments dropped due to overload.

OID .1.3.6.1.4.1.22610.2.4.3.16.20

axSwitchStatsIPFragReasmOk

Description Get the number of successfully reassembled IP fragments.

OID .1.3.6.1.4.1.22610.2.4.3.16.21

axSwitchStatsIPFragReasmFail

Description Get the number of fragment reassembly failures.

OID .1.3.6.1.4.1.22610.2.4.3.16.22

axSwitchStatsAnomLanAttackDrop

Description Get the number of packets dropped by an IP land attack filter. This statistic and the other Anomaly statistics show how many packets were dropped by DDoS protection filters. For the AX device to drop these packets, the corresponding DDoS protection options must be enabled.

OID .1.3.6.1.4.1.22610.2.4.3.16.23

axSwitchStatsAnomIPOptionDrop

Description Get the number of packets dropped by an IP option filter.

OID .1.3.6.1.4.1.22610.2.4.3.16.24

axSwitchStatsAnomPingDeathDrop

Description Get the number of packets dropped by a ping-of-death filter.

OID .1.3.6.1.4.1.22610.2.4.3.16.25

axSwitchStatsAnomAllFragDrop

Description Get the number of packets dropped by a frag filter.

OID .1.3.6.1.4.1.22610.2.4.3.16.26

axSwitchStatsAnomTCPNoFragDrop

Description Get the number of packets dropped by a tcp-no-flag filter.

OID .1.3.6.1.4.1.22610.2.4.3.16.27

axSwitchStatsAnomSYNFragDrop

Description Get the number of packets dropped by a tcp-syn-frag filter.

OID .1.3.6.1.4.1.22610.2.4.3.16.28

axSwitchStatsAnomTCPSynFinDrop

Description Get the number of packets dropped by a tcp-syn-fin filter.

OID .1.3.6.1.4.1.22610.2.4.3.16.29

axSwitchStatsAnomAnyDrop

Description Get the number of packets dropped by any type of hardware-based DDoS protection filter.

OID .1.3.6.1.4.1.22610.2.4.3.16.30

axSwitchStatTable

Description Get the AX switch statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.16.31

Table 44 describes the fields in this table.

TABLE 44 axSwitchStatTable fields

Field	Description
axSwitchStatCpuIndex .1.1	CPU index of the switching statistics table.
axSwitchStatL2Forward .1.2	Number of packets that have been Layer-2 switched.
axSwitchStatL3IPForward .1.3	Number of packets that have been Layer-3 routed.

TABLE 44 axSwitchStatTable fields (Continued)

Field	Description
axSwitchStatIPv4NoRouteDrop .1.4	Number of IPv4 packets that were dropped due to routing failures.
axSwitchStatL3IPv6Forward .1.5	Number of IPv6 packets that have been Layer-3 routed.
axSwitchStatIPv6NoRouteDrop .1.6	Number of IPv6 packets that were dropped due to routing failures.
axSwitchStatL4Process .1.7	Number of packets that went to a VIP or NAT for processing.
axSwitchStatIncorrectLenDrop .1.8	Number of packets dropped due to incorrect protocol length. A high value for this counter can indicate a packet length attack.
axSwitchStatProtoDownDrop .1.9	Number of packets dropped because the corresponding protocol was disabled.
axSwitchStatUnknownProtoDrop .1.10	Number of packets dropped because the protocol was unknown.
axSwitchStatTTLExceedDrop .1.11	Number of packets dropped due to TTL expiration.
axSwitchStatLinkdownDrop .1.12	Number of packets dropped because the outgoing link was down.
axSwitchStatSRCPortSuppress .1.13	Number of packets dropped due to source port suppression.
axSwitchStatVLANFlood .1.14	Number of packets that have been broadcast to a VLAN.
axSwitchStatIPFragRcv .1.15	Number of IPv4 fragments that have been received.
axSwitchStatARPReqRcv .1.16	Number of ARP requests that have been received.
axSwitchStatARPRespRcv .1.17	Number of ARP responses that have been received.
axSwitchStatFwdKernel .1.18	Number of packets received by the kernel from data interfaces.
axSwitchStatIPTCPFragRcv .1.19	Number of IP TCP fragments received.
axSwitchStatIPFragOverlap .1.20	Number of overlapping fragments received.
axSwitchStatIPFragOverlapDrop .1.21	Number of fragments dropped due to overload.
axSwitchStatIPFragReasmOk .1.22	Number of successfully reassembled IP fragments.

TABLE 44 axSwitchStatTable fields (Continued)

Field	Description
axSwitchStatIPFragReasmFail .1.23	Number of fragment reassembly failures.
axSwitchStatAnomLanAttackDrop .1.24	Number of packets dropped by an IP land attack filter.This statistic and the other Anomaly statistics show how many packets were dropped by DDoS protection filters. For the AX device to drop these packets, the corresponding DDoS protection options must be enabled.
axSwitchStatAnomIPOptionDrop .1.25	Number of packets dropped by an IP option filter.
axSwitchStatAnomPingDeathDrop .1.26	Number of packets dropped by a ping-of-death filter.
axSwitchStatAnomAllFragDrop .1.27	Number of packets dropped by a frag filter.
axSwitchStatAnomTCPNoFragDrop .1.28	Number of packets dropped by a tcp-no-flag filter.
axSwitchStatAnomSYNFragDrop .1.29	Number of packets dropped by a tcp-syn-frag filter.
axSwitchStatAnomTCPSynFinDrop .1.30	Number of packets dropped by a tcp-syn-fin filter.
axSwitchStatAnomAnyDrop .1.31	Number of packets dropped by any type of hardware-based DDoS protection filter.

axHA Objects

The HA objects are described in "AX MIB Objects: High Availability Group" on page 151.

axIpNatStats Objects

axIpNatStatsGlobalHits

Description Get the total number of IP source NAT hits.

OID `.1.3.6.1.4.1.22610.2.4.3.18.1.1`

axIpNatStatsGlobalMisses

Description Get the total number of IP source NAT misses.

OID .1.3.6.1.4.1.22610.2.4.3.18.1.2

axIpNatStatsIntfInsideOutsideTable

Description Get the NAT interface statistics table.

OID .1.3.6.1.4.1.22610.2.4.3.18.2.1

Table 45 describes the fields in this table.

TABLE 45 axIpNatStatsIntfInsideOutsideTable fields

Field	Description
axIpNatStatsInsideOutsideIntfIndex .1.1	Module index of the NAT interface statistics table.
axIpNatStatsInsideOutsideIntfName .1.2	Interface name.
axIpNatStatsInsideOutsideIntfDirection .1.3	Interface direction (inside or outside).

axIpNatStatsDynamicMappingTable

Description Get the IP NAT dynamic mapping table.

OID .1.3.6.1.4.1.22610.2.4.3.18.3.1

Table 46 describes the fields in this table.

TABLE 46 axIpNatStatsDynamicMappingTable fields

Field	Description
axIpNatStatsDynamicMappingAccessListID .1.1	Access List (ACL) ID.
axIpNatStatsDynamicMappingPoolName .1.2	Name of the IP address pool.
axIpNatStatsDynamicMappingStartAddress .1.3	Starting address of the pool's address range.

TABLE 46 axIpNatStatsDynamicMappingTable fields (Continued)

Field	Description
axIpNatStatsDynamicMappingEndAddress .1.4	Ending address of the pool's address range.
axIpNatStatsDynamicMappingTotalAddresses .1.5	Total number of addresses in the pool.
axIpNatStatsDynamicMappingAllocAddresses .1.6	Total number of addresses that have been allocated.
axIpNatStatsDynamicMappingMissAddresses .1.7	Total number of address misses.
axIpNatStatsDynamicMappingStartAddressType .1.8	Start IP address type: • Unknown(0) • IPv4(1) • IPv6(2)
axIpNatStatsDynamicMappingEndAddressType .1.9	End IP address type: • Unknown(0) • IPv4(1) • IPv6(2)

axIpNatStatsDynamicMappingAclNameTable

Description Get the IPv6 IP NAT dynamic mapping table.

OID `.1.3.6.1.4.1.22610.2.4.3.18.19.1`

Table 47 describes the fields in this table.

TABLE 47 axIpNatStatsDynamicMappingAclNameTable fields

Field	Description
axIpNatStatsDynamicMappingAclNameAccessListName .1.1	Name of the Access List (ACL).
axIpNatStatsDynamicMappingAclNameAccessListID .1.2	ACL ID.
axIpNatStatsDynamicMappingAclNamePoolName .1.3	Name of the IP address pool.

TABLE 47 axIpNatStatsDynamicMappingAclNameTable fields (Continued)

Field	Description
axIpNatStatsDynamicMappingAclNameStartAddress .1.4	Starting address of the pool's address range.
axIpNatStatsDynamicMappingAclNameEndAddress .1.5	Ending address of the pool's address range.
axIpNatStatsDynamicMappingAclNameTotalAddresses .1.6	Total number of addresses in the pool.
axIpNatStatsDynamicMappingAclNameAllocAddresses .1.7	Total number of addresses that have been allocated.
axIpNatStatsDynamicMappingAclNameMissAddresses .1.8	Total number of address misses.
axIpNatStatsDynamicMappingAclNameStartAddressType .1.9	The address type of the starting IP address: • 0 – Unknown • 1 – IPv4 • 2 – IPv6
axIpNatStatsDynamicMappingAclNameEndAddressType .1.10	The address type of the ending IP address: • 0 – Unknown • 1 – IPv4 • 2 – IPv6

axSessionStats Objects

axSessionGlobalStatTCPEstablished

Description Get the number of established TCP sessions.

OID `.1.3.6.1.4.1.22610.2.4.3.19.1.1`

axSessionGlobalStatTCPHalfOpen

Description Get the number of half-open TCP sessions.

OID `.1.3.6.1.4.1.22610.2.4.3.19.1.2`

axSessionGlobalStatUDP

Description Get the number of UDP sessions.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.3

axSessionGlobalStatNonTcpUdpIPSession

Description Get the number of IP sessions that are not TCP or UDP sessions.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.4

axSessionGlobalStatOther

Description Get the number of sessions that are not any of the types listed by other counters.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.5

axSessionGlobalStatReverseNATTCP

Description Get the number of reverse NAT TCP sessions.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.6

axSessionGlobalStatReverseNATUDP

Description Get the number of reverse NAT UDP sessions.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.7

axSessionGlobalStatFreeBufferCount

Description Get the number of free packet buffers.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.8

axSessionGlobalStatFreeCurrentConns

Description Get the number of free current connections.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.9

axSessionGlobalStatConnCount

Description Get the number of current connections.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.10

axSessionGlobalStatConnFree

Description Get the number of freed connections.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.11

axSessionGlobalStatTCPSynHalfOpen

Description Get the number of half-open TCP SYNs.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.12

axSessionGlobalStatConnSMPAllocated

Description Get the number of allocated SMP connections.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.13

axSessionGlobalStatConnSMPFree

Description Get the number of free SMP connections.

OID .1.3.6.1.4.1.22610.2.4.3.19.1.14

AX MIB Objects: High Availability Group

This chapter describes the MIB objects in the High Availability (HA) group.

axHAGlobalConfig Objects

axHAConfigEnabled

Description Get the HA state. The object can have one of the following values:

- Disabled(0)
- Enabled(1)

OID .1.3.6.1.4.1.22610.2.4.3.17.1.1

axHAID

Description Get the local HA group ID.

OID .1.3.6.1.4.1.22610.2.4.3.17.1.2

axHASetID

Description Get the local HA set ID.

OID .1.3.6.1.4.1.22610.2.4.3.17.1.3

axHAPreemptStatusEnabled

Description Get the state (enabled or disabled) of HA pre-emption. The object can have one of the following values:

- Disabled(0)
- Enabled(1)

OID .1.3.6.1.4.1.22610.2.4.3.17.1.4

axHATimeoutInterval

Description Get the HA heartbeat interval.

OID .1.3.6.1.4.1.22610.2.4.3.17.1.5

axHATimeoutRetry

Description Get the number of retries allowed if the HA heartbeat interval times out.

OID .1.3.6.1.4.1.22610.2.4.3.17.1.6

axHAARPRetry

Description Get the number of additional gratuitous ARPs, in addition to the first ones, an AX sends after transitioning from Standby to Active.

OID .1.3.6.1.4.1.22610.2.4.3.17.1.7

axHAGroup Objects

axHAGroupCount

Description Get the number of valid HA groups.

OID .1.3.6.1.4.1.22610.2.4.3.17.2.1

axHAGroupStatusTable

Description Get the HA group status table.

OID .1.3.6.1.4.1.22610.2.4.3.17.2.2

Table 48 describes the fields in this table.

TABLE 48 axHAGroupStatusTable fields

Field	Description
axHAGroupID .1.1	HA group ID.

TABLE 48 axHAGroupStatusTable fields (Continued)

Field	Description
axHAGroupLocalStatus .1.2	Local status of the HA group: • Standby(0) • Active(1) • NotConfigured(9)
axHAGroupLocalPriority .1.3	Local priority of the HA group.
axHAGroupPeerStatus .1.4	Peer status of the HA group: • Standby(0) • Active(1) • NotConfigured(9)
axHAGroupPeerPriority .1.5	Peer priority of the HA group.

Example

```
[root@localhost axApp]# snmpwalk -v 2c -c public 192.168.1.239
1.3.6.1.4.1.22610.2.4.3.17
SNMPv2-SMI::enterprises.22610.2.4.3.17.1.1.0 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.1.2.0 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.1.3.0 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.1.4.0 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.1.5.0 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.1.6.0 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.1.7.0 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.1.0 = INTEGER: 2
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.1.1 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.1.10 = INTEGER: 10
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.2.1 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.2.10 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.3.1 = INTEGER: 33
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.3.10 = INTEGER: 22
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.4.1 = INTEGER: 9
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.4.10 = INTEGER: 9
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.5.1 = INTEGER: 0
SNMPv2-SMI::enterprises.22610.2.4.3.17.2.2.1.5.10 = INTEGER: 0
```

axHAFloatingIP Objects

axHAFloatingIPCount

Description Get the number of configured HA floating IP interfaces.

OID .1.3.6.1.4.1.22610.2.4.3.17.3.1

axHAFloatingIPTable

Description Get the HA floating IP interface table.

OID .1.3.6.1.4.1.22610.2.4.3.17.3.2

Table 49 describes the fields in this table.

TABLE 49 axHAFloatingIPTable fields

Field	Description
axHAFloatingIPIndex .1.1	Module index of the HA floating IP interface table.
axHAFloatingIPAddress .1.2	IP address of the floating interface.
axHAFloatingIPHaGroupID .1.3	HA group to which the floating IP interface belongs.

Example

```
[root@localhost lb]# snmpwalk -v 2c -c public 192.168.1.239
1.3.6.1.4.1.22610.2.4.3.17.3
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.1.0 = INTEGER: 3
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.1.1 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.1.2 = INTEGER: 2
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.1.3 = INTEGER: 3
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.2.1 = STRING: "1.1.1.10"
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.2.2 = STRING: "2001::3"
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.2.3 = STRING: "2001::4"
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.3.1 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.3.2 = INTEGER: 1
SNMPv2-SMI::enterprises.22610.2.4.3.17.3.2.1.3.3 = INTEGER: 2
```

AX MIB Objects: axNotification

This chapter describes the system notification objects in the axApp group.

Note: These objects are supported for SNMPv2 and SNMPv1, in separate files. (See "AX MIB Files" on page 26.)

axNotificationObjects

axNotificationMsg

Description Provides information about the related notification.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.1

axNotificationSLBServer

Description Indicates the IP address or hostname of the server.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.2

axNotificationSLBPort

Description Indicates the service port.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.3

axNotificationSLBCurConns

Description Indicates the current total of connections.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.4

axNotificationVirtualServer

Description Indicates the IP address or hostname of the virtual server.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.5

axNotificationVirtualServerPort

Description Indicates the virtual server port.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.6

axNotificationVirtualServerPortType

Description Indicates the virtual server port type.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.7

axNotificationDropEventReason

Description Provides the event indicator type. Examples include “Firmware”, “HighPerformanceDriver”, “L2”, and “L3”.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.8

axNotificationConfiguredThreshold

Description Indicates the configured notification threshold value.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.9

axNotificationCurrentUsage

Description Indicates the current usage value.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.10

axNotificationConnLimit

Description Indicates the connection limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.11

axNotificationTrunkID

Description Indicates the ID of a trunk. This object and the following two objects are used by the axNetworkTrunkPortsThreshold notification object (described below).

OID .1.3.6.1.4.1.22610.2.4.3.12.1.12

axNotificationPortThreshold

Description Indicates the port threshold configured on a trunk.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.13

axNotificationCurrentUpPorts

Description Indicates the number of ports currently up on the trunk.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.14

axNotificationFanName

Description Indicates the name assigned to the system fan.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.15

axNotificationPowerSupplyName

Description Indicates the name assigned to the power supply.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.16

axNotificationHAGroupID

Description Indicates the group ID that is undergoing HA state transition between Active and Standby.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.17

axNotificationSLBServiceGroupName

Description Indicates the service group name.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.18

axNotificationShutdownReason

Description Indicates the cause for a mandatory shut down of the AX device.

- 1 – The system temperature is too high.
- 2 – A single power supply cord is connected to the device, which has triggered a power supply shutdown. This notification is applicable to the AX 5630 only.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.34

axNotificationIpAddressType

Description Indicates the type of the LSN IP address.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.35

axNotificationLsnIpAddress

Description Indicates the LSN IP address.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.50

axNotificationLsnProtoType

Description Indicates the LSN protocol type.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.51

axNotificationLsnCurrentUsage

Description Indicates LSN current usage.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.52

axNotificationLsnPoolName

Description Indicates an LSN pool name.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.53

axNotificationLsnExceededTimes

Description Indicates the number of times the maximum was exceeded.

OID .1.3.6.1.4.1.22610.2.4.3.12.1.54

axSystemNotifications

axSystemStart

Description Indicates that the AX device has started.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.1

axSystemShutdown

Description Indicates that the AX device has shut down.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.2

axSystemTempHigh

Description Indicates that the temperature inside the AX chassis is too high (68 C or higher).

If you see this notification, check for fan failure notifications. Also check the installation location to ensure that the chassis room temperature is not too high (40 C or higher) and that the chassis is receiving adequate air flow.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.3

axFan1Failure

Description Indicates that system fan 1 has failed. Contact A10 Networks.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.4

axFan2Failure

Description Indicates that system fan 2 has failed. Contact A10 Networks.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.5

axFan3Failure

Description Indicates that system fan 3 has failed. Contact A10 Networks.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.6

axUpperPowerSupplyFailure

Description Indicates that the upper power supply has failed. The power supply needs to be replaced.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.9

axLowerPowerSupplyFailure

Description Indicates that the lower power supply has failed. The power supply needs to be replaced.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.10

axPrimaryHardDiskFailure

Description Indicates that the primary Hard Disk has failed or the RAID system has failed. Contact A10 Networks. The primary Hard Disk is the one on the left, as you are facing the front of the AX chassis.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.11

axSecondaryHardDiskFailure

Description Indicates that the secondary Hard Disk has failed or the RAID system has failed. Contact A10 Networks. The secondary Hard Disk is the one on the right, as you are facing the front of the AX chassis.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.12

axHardDiskUsageHigh

Description Indicates that hard disk usage on the AX device is higher than the configured threshold.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.13

axMemoryUsageHigh

Description Indicates that the memory usage on the AX device is higher than the configured threshold.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.14

axSystemRestart

Description Indicates that the AX device is going to reboot or reload.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.15

axSystemDropPacketEvent

Description Indicates that a packet has been dropped, for the reason indicated.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.16

axSystemRelieveDropPacketEvent

Description Indicates that the condition that caused the packet loss indicated by axSystemDropPacketEvent (above) has been resolved.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.17

axSystemControlCpuHigh

Description Indicates that control CPU utilization is higher than the configured threshold.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.18

axSystemDataCpuHigh

Description Indicates that data CPU utilization is higher than the configured threshold.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.19

axSystemFanFailure

Description Indicates that a fan has failed.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.20

axSystemPowerSupplyFailure

Description Indicates that a power supply has failed.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.21

axSystemShutdownForReason

Description Indicates that the AX device is undergoing a mandatory shut down.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.25

Note: When the object axSystemShutdownForReason is sent, the object axNotificationShutdownReason is included to describe the cause of a mandatory shut down. These notifications are sent only for the AX 5630 when a single power supply cord is connected to the device.

axFileSystemBecomeReadOnly

Description Indicates that the file system has entered a read-only state.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.1.26

Note: When the AX file system enters a read-only state, the system is capable of sending only one SNMP trap notification. Following which, no other SNMP trap notifications are sent.

axAppNotifications

axHAStandby

Note: This object is deprecated in AX Release 2.6 and later. Instead, see "axHAGroupStatusTable" on page 152.

axHAActive

Note: This object is deprecated in AX Release 2.6 and later. Instead, see "axHAGroupStatusTable" on page 152.

axHAActiveActive

Note: This object is deprecated in AX Release 2.6 and later. Instead, see "axHAGroupStatusTable" on page 152.

axServiceDown

Description Indicates that an SLB service has gone down.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.4

axServiceUp

Description Indicates that an SLB service has come up.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.5

axServerDown

Description Indicates that an SLB server has gone down.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.6

axServerUp

Description Indicates that an SLB server has come up.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.7

axServerConnLimit

Description Indicates that an SLB server has reached its configured connection limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.8

axServerConnResume

Description Indicates that an SLB server has reached its configured connection-resume value.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.9

axServiceConnLimit

Description Indicates that an SLB service has reached its configured connection limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.10

axServiceConnResume

Description Indicates that an SLB service has reached its configured connection-resume value.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.11

axVirtualServerPortDown

Description Indicates that an SLB virtual service port has gone down.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.12

axVirtualServerPortUp

Description Indicates that an SLB virtual service port has come up. An SLB virtual server's service port is up when at least one member (real server and real port) in the service group bound to the virtual port is up.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.13

axApplicationBufferReachLimit

Description Indicates that SLB application buffer usage has exceeded the configured threshold.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.14

axVirtualServerPortReachConnLimit

Description Indicates that a virtual server port has reached the configured connection limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.15

axVirtualServerPortReachConnRateLimit

Description Indicates that a virtual server port has reached the configured connection-rate limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.16

axVirtualServerReachConnLimit

Description Indicates that a virtual server has reached the configured connection limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.17

axVirtualServerReachConnRateLimit

Description Indicates that a virtual server has reached the configured connection-rate limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.18

axServerConnRateLimit

Description Indicates that a real server has reached the configured connection-rate limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.19

axServiceConnRateLimit

Description Indicates that a real port has reached the configured connection-rate limit.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.2.20

axServiceGroupMemberEnabledForNewConn

Description Indicates that an SLB service group member is enabled to accept a new connection, when the current connections of group members exceeds the connection limit.

OID `.1.3.6.1.4.1.22610.2.4.3.12.2.2.21`

axServiceGroupMemberDisabledForNewConn

Description Indicates that an SLB service group member is disabled, when the current connections of group members are reduced to the connection resume threshold.

OID `.1.3.6.1.4.1.22610.2.4.3.12.2.2.22`

axNetworkNotifications

axNetworkTrunkPortsThreshold

Description Indicates that the number of up ports in a trunk has fallen below the configured threshold.

OID `.1.3.6.1.4.1.22610.2.4.3.12.2.3.1`

axLsnNotifications

These objects are in the LSN event group. To enable them, use the following command:

```
[no] snmp-server enable traps lsn
```

For more syntax information, see the *AX Series CLI Reference*.

To enable them using the GUI, navigate to Config > System > SNMP. Click next to Trap List to display the list of notifications you can enable.

axLsnNatAllPortUsageReachThreshold

Description Indicates that the AX device has reached its configured system-wide port usage threshold for Large Scale NAT (LSN) global IP addresses.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.1

axLsnIpAllPortExhausted

Description Indicates that an LSN global IP address has reached its configured port usage threshold.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.2

axLsnTrafficIcmpUserQuotasExceed

Description Indicates that the ICMP user quota has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.3

axLsnTrafficUdpUserQuotasExceed

Description Indicates that the UDP user quota has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.4

axLsnTrafficTcpUserQuotasExceed

Description Indicates that the TCP user quota has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.5

axLsnTrafficEspUserQuotasExceed

Description Indicates that the ESP user quota has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.6

axLsnTrafficNatPortUnavailable

Description Indicates that NAT port usage has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.7

axLsnTrafficNewUserResourceUnavailable

Description Indicates that a new user could not get a NAT IP address from a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.8

axLsnTrafficUdpExtendedUserQuotasExceed

Description Indicates that the UDP extended user quota has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.9

axLsnTrafficTcpExtendedUserQuotasExceed

Description Indicates that the TCP extended user quota has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.10

axLsnTrafficNewUserQuotasCreationFailed

Description Indicates that creation of a user quota failed in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.11

axLsnFullconeCreationFailed

Description Indicates that creation of a full-cone session failed in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.12

axLsnSessionUserQuotasExceed

Description Indicates that the user quota has been exceeded in a specific pool.

OID .1.3.6.1.4.1.22610.2.4.3.12.2.4.13

Corporate Headquarters

A10 Networks, Inc.
3 W Plumeria Dr.
San Jose, CA 95134
USA

Tel: +1-408-325-8668 (main)
Tel: +1-408-325-8676 (support - worldwide)
Tel: +1-888-822-7210 (support - toll-free in USA)
Fax: +1-408-325-8666

www.a10networks.com