VANTAGEO Server

SNMP Interface Description (BMC V4)

Version: R1.3

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Revision History

Revision No.	Revision Date	Revision Reason
R1.3	2024-11-06	● Updated the following sections: → 2 Relationship Between Tables in the MIB → 3.1 systemInfo → 3.4 syslog → 3.12 networkProperty → 3.14 cpuProperty

Revision No.	Revision Date	Revision Reason
		→ 3.18 netCardProperty → 3.22 hardDiskProperty → 3.24 nvmeDeviceProperty → 4 Detailed Descriptions of Traps in OID Mode ● Added the following sections: → 4.20 Onboard NIC Alarm Traps → 4.22 Environment Humidity Alarm Traps → 4.24 GPU Baseboard Alarm Traps → 4.25 Acceleration Card Alarm Traps → 4.26 GPU Baseboard Optical Module Alarm Traps
R1.2	2024-06-28	● Updated "3.1 systemInfo", "3.7 powerSupplyProperty", "3.15 memoryProperty", "3.16 fruInfo","3.20 gpuProperty", "3.21 raidControllerProperty", "3.22 hardDiskProperty", "3.24 logicalDeviceProperty". ● Added "4.13 BMC Event Alarm Traps", "4.16 System Firmware Alarm Trap".
R1.1	2024-04-10	Updated "3.4 syslog", "3.5 trap", "3.7 powerSupplyProperty", "3.18 netCardProperty", and "3.20 gpuProperty".
R1.0	2023-09-30	First edition.

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Contents

About This Manual

Purpose

This manual gives a comprehensive introduction to the SNMP interface for a VANTAGEO server. With this manual, you can learn about how to use the SNMP interface and the SNMP traps.

This manual is applicable to the BMC V4.

Intended Audience

This manual is intended for:

- Data configuration engineers
- Maintenance engineers

What Is in This Manual

This manual contains the following chapters.

Chapter 1, SNMP Overview	Describes the basic principles, definitions, and operations of SNMP.
Chapter 2, Relationship Between Tables in the MIB	Describes the relationship between tables in the MIB.
Chapter 3, Detailed Descriptions of MIB Tables	Describes MIB tables in detail.
Chapter 4, Detailed Descriptions of Traps in OID Mode	Describes OID mode–based traps in detail.

Conventions

	Note: provides additional information about a topic.

This manual uses the following convention.

Chapter 1
SNMP Overview

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1.1 Basic Principles

SNMP is used to manage network devices. As a network management protocol widely used in TCP/IP networks, SNMP provides unified interfaces to implement unified management of network devices of different types from different manufacturers.

There are three SNMP versions: SNMPv1, SNMPv2c, and SNMPv3.

- SNMPv1 is the initial version of SNMP, providing the minimum network management functions. SNMPv1 uses community names for authentication. This authentication mode provides poor security and returns few error codes in packets.
- SNMPv2c also uses community names for authentication. Based on SNMPv1, it defines two operations: GetBulk and Inform, to support more standard error codes and more data types (Counter64 and Counter32).
- SNMPv3 provides security enhancements: USM-based authentication encryption and VACM-based access control. SNMPv3 supports the same operations as SNMPv2c.

The BMC software supports SNMPv1, SNMPv2c and SNMPv3 as well as trap reporting. It implements SNMP features for managing the mainboard, hard disks, standard cards, memory, power supplies, fans, power, power-on/power-off, and trap reporting.

1.2 Definitions

NMS

Acting as a manager in the network, the NMS manages or monitors network devices through SNMP and runs on an NMS server. The NMS provides the following functions:

- The NMS can send a request to the SNMP agent on a device to query or modify the values of one or more OIDs.

- The NMS can receive SNMP traps actively sent by the SNMP agent on the device to learn about the current status of the managed device.

SNMP Agent

An SNMP agent is an agent process on a managed device. It maintains the information data of the managed device, responds to the requests from the NMS, and reports the management data to the NMS.

- After receiving a request from the NMS, the SNMP agent performs the corresponding operations through the MIB, and responds to the NMS with the operation results.
- When a fault or another event occurs on the device, the device sends an SNMP trap to the NMS through the SNMP agent, reporting the current status change of the device to the NMS.

The BMC software of VANTAGEO servers provides the SNMP agent service.

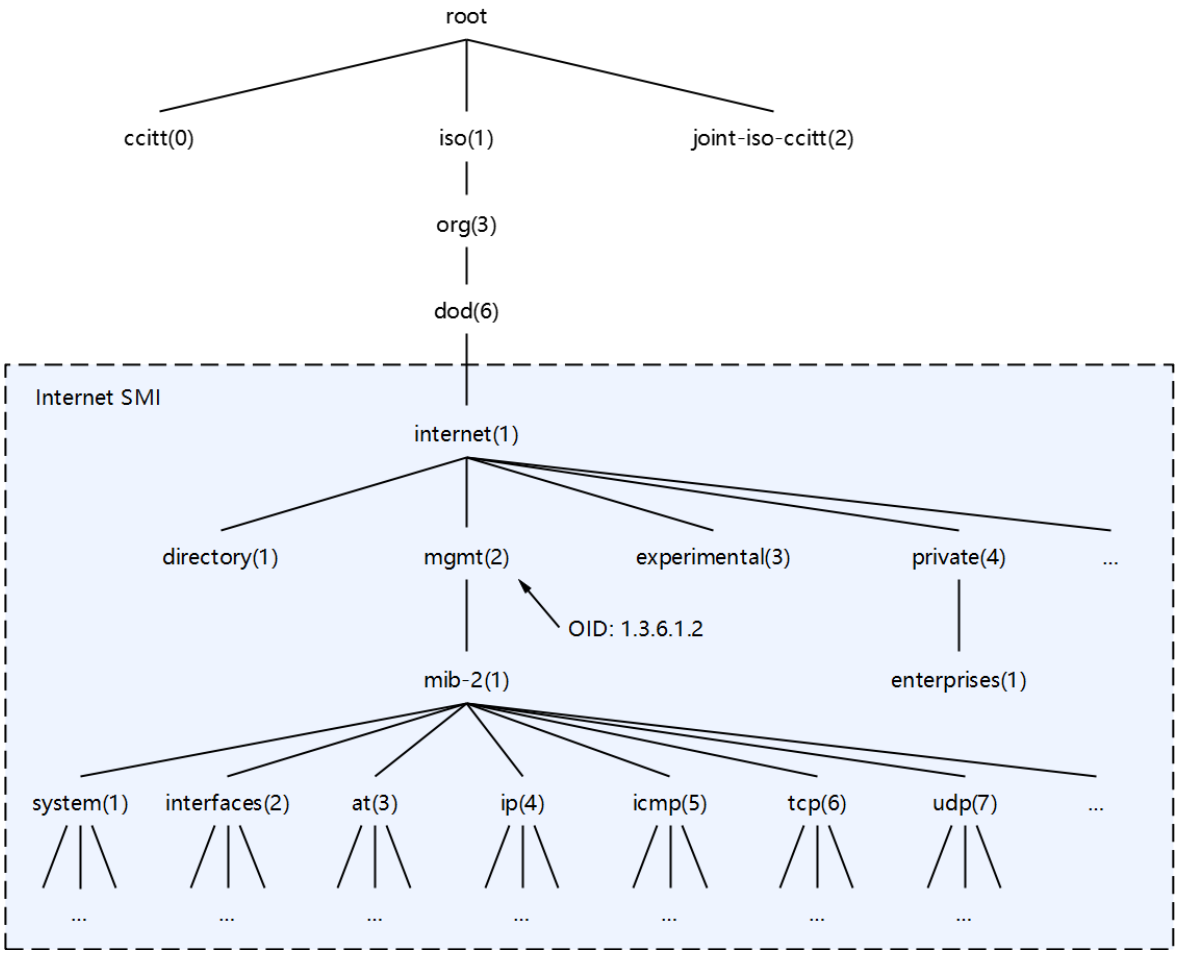
MIB

An MIB is a database, which specifies the variables maintained on the managed devices. It defines the attributes of the managed devices: object name, object status, access permission of object, and data type of object.

An MIB can also be regarded as an interface between the NMS and SNMP agent. Through this interface, the NMS can query or set the variables maintained on the managed devices.

An MIB stores data in a tree structure, see Figure 1-1.

Figure 1-1 OID Tree Structure



A node of the tree represents a managed object, which can be uniquely identified by a path starting from the root. This path is called an OID. For example, the OID of **system** is *1.3.6.1.2.1.1*, and the OID of **interfaces** is *1.3.6.1.2.1.2*.

A subtree can be identified by the OID of the root node of the subtree. If a subtree uses **private** as its root node, the OID of the subtree is the OID of **private**, namely, {1.3.6.1.4}.

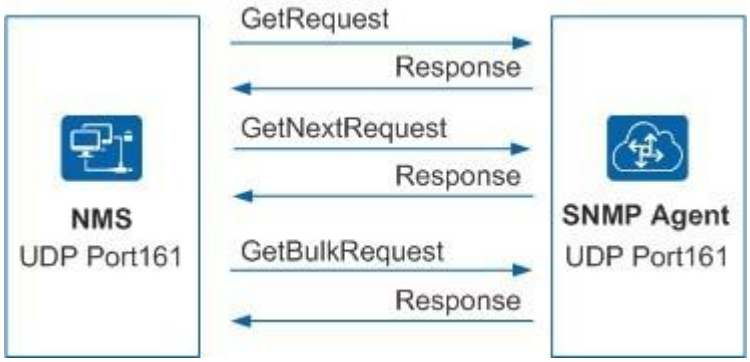
1.3 Operation Descriptions

SNMP Query

SNMP Query means that the NMS actively sends a query request to the SNMP agent. After receiving the query request, the SNMP agent performs the corresponding operations through the MIB, and returns the results to the NMS.

Figure 1-2 shows the SNMP Query procedure.

Figure 1-2 SNMP Query Operations



There are three SNMP Query operations: Get, GetNext and GetBulk.

- **Get**: The NMS uses this operation to obtain the values of one or more OIDs from the SNMP agent.
- **GetNext**: The NMS uses this operation to obtain the value of the next OID from the SNMP agent.
- **GetBulk**: Implemented based on GetNext, it is equivalent to multiple GetNext operations. On the NMS, you can set the number of GetNext operations executed by one GetBulk request.

Note

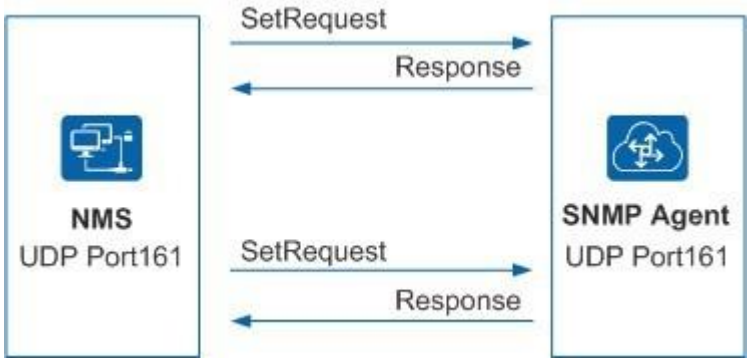
SNMPv1 does not support the GetBulk operation.

SNMP Set

SNMP Set means that the NMS actively sends a Set request to the SNMP agent for performing a Set operation on the device. After receiving the Set request, the SNMP agent performs the corresponding operations through the MIB, and returns the results to the NMS.

Figure 1-3 shows the SNMP Set procedure.

Figure 1-3 SNMP Set Operation



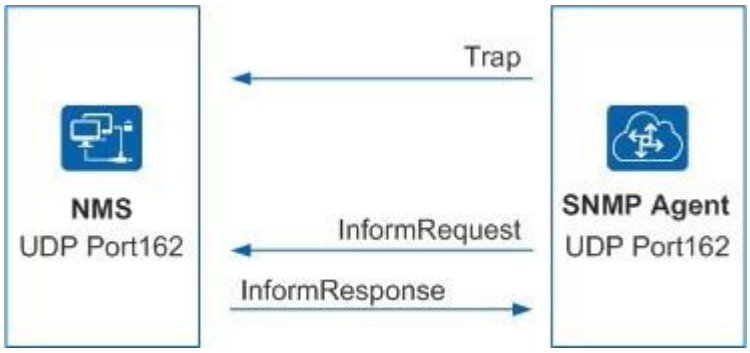
SNMP Set involves only the Set operations. The NMS can set the values of one or more OIDs within the SNMP agent through the Set operations.

SNMP Trap

SNMP Trap means that the SNMP agent actively reports the alarms or events generated by the device to the NMS so that the network administrator can know the current operational status of the device in a timely manner.

Figure 1-4 shows the SNMP Trap and Inform procedure.

Figure 1-4 SNMP Trap and Inform Operations



The SNMP agent can report SNMP traps in two ways: Trap message and Inform message. Trap differs from Inform in that after the SNMP agent sends an alarm or event to the NMS through an Inform message, the NMS needs to return an InformResponse message for acknowledgement.

Note

SNMPv1 does not support Inform messages.

Chapter 2
Relationship Between Tables in the MIB

The tables in the MIB display data in tabular manner and scalar manner. All the nodes in scalar objects are leaf nodes without an index, while tabular objects have indexes.

Figure 2-1 shows tabular objects, where **fanIndex** indicates the index.

Figure 2-1 Tabular Objects

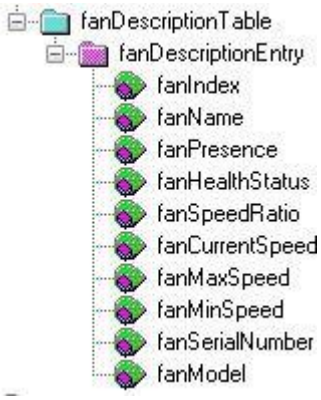


Figure 2-2 shows scalar objects, where there is no index.

Figure 2-2 Scalar Objects

For the relationship between tables in the vantageo BMC (1.3.6.1.4.1.3902.2601.15.1) MIB, refer to Table 2-1.

Table 2-1 Relationship Between Tables in the vantageoBMC MIB

Node OID	Node Name	Child Node Name
1.3.6.1.4.1.3902.2601.15.1.1	systemInfo	systemInfo (scalar)
1.3.6.1.4.1.3902.2601.15.1.2	domainNameSystem	domainNameSystem (scalar)

Node OID	Node Name	Child Node Name
1.3.6.1.4.1.3902.2601.15.1.5	ntp	ntp (scalar)
1.3.6.1.4.1.3902.2601.15.1.6	syslog	syslog (scalar) syslogInfoDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.7	trap	trap (scalar) trapInfoDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.8	smtp	smtp (scalar) smtpReceiverDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.10	powerSupplyProperty	powerSupplyProperty (scalar) powerSupplyPresenceTable (tabular) powerSupplyDescriptionTable (tabular) powerSupplyGroupTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.11	powerStatistic	powerStatistic (scalar)
1.3.6.1.4.1.3902.2601.15.1.12	powerManagement	powerManagement (scalar)
1.3.6.1.4.1.3902.2601.15.1.13	fanProperty	fanProperty (scalar) fanDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.16	firmwareProperty	firmwareDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.17	networkProperty	networkProperty (scalar) networkDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.18	sensorProperty	sensorDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.21	cpuProperty	cpuProperty (scalar) cpuDescriptionTable (tabular) cpuPresenceTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.22	memoryProperty	memoryProperty (scalar) memoryDescriptionTable (tabular) memoryPresenceTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.23	fruInfo	fruDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.24	pCIeDeviceProperty	pCIeDeviceProperty (scalar) pCIeDeviceDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.26	netCardProperty	netCardDescriptionTable (tabular) netPortDescriptionTable (tabular) netCardMemoryInfoDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.27	fcCardProperty	fcCardDescriptionTable (tabular) fcPortDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.28	gpuProperty	gpuDescriptionTable (tabular)

Node OID	Node Name	Child Node Name
1.3.6.1.4.1.3902.2601.15.1.29	raidControllerProperty	raidControllerDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.30	hardDiskProperty	hardDiskProperty (scalar) hardDiskDescriptionTable (tabular) hardDiskPresenceTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.31	nvmeDeviceProperty	nvmeDeviceDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.32	logicalDriveProperty	logicalDriveDescriptionTable (tabular)
1.3.6.1.4.1.3902.2601.15.1.500	vantageoTrap	vantageoTrapVar vantageoTrapEvent

Chapter 3
Detailed Descriptions of MIB Tables

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3.1 systemInfo

3.1.1 Function

Parent Node

The systemInfo node contains a total of 24 scalar objects, including the BMC system time, time zone, boot order, boot mode, UID indicator, and so on.

The OID of the systemInfo node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).systemInfo(1)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
systemHealth	1.3.6.1.4.1.3902.2601.15.1.1.1	Present state of system health. This value will be one of the following: ● OK(0) ● Minor(2) ● Major(3) ● Critical(4)	Integer	read-only
systemTime	1.3.6.1.4.1.3902.2601.15.1.1.2	BMC system time (yyyy-mm-dd hh:mm:ss).	DisplayString	read-only
systemTimeZone	1.3.6.1.4.1.3902.2601.15.1.1.3	BMC time zone. The value is in [-720, 840].	Integer32	read-only
systemTime-ZoneStr	1.3.6.1.4.1.3902.2601.15.1.1.4	BMC time zone (string), for example, (UTC-12:00).	DisplayString	read-only
systemBootse-quence	1.3.6.1.4.1.3902.2601.15.1.1.5	Decide the system's first boot device. ● No override(0) ● Force PXE(1) ● Force boot from default Hard-drive(2) ● Force boot from default CD/DVD (5) ● Force boot into BIOS Setup(6) ● Force boot from remotely connected Hard-drive(11) ● Force boot from Floppy/primary removable media(15)	Integer	read-write

Object Name	OID	Description	Type	Permission
systemBootMode	1.3.6.1.4.1.3902.2601.15.1.1.6	Decide the next system's boot mode. ● Legacy(0) ● UEFI(1) ● No override(2) ● Unknown(255) The default value is UEFI(1). Servers with ARM processors and G6 Intel processors do not support legacy mode.	Integer	read-write
systemBootOnce	1.3.6.1.4.1.3902.2601.15.1.1.7	System boot once or permanent. ● one time(0) ● permanent(1) When setting one-time boot options, set systemBootOnce before systemBootsequence and systemNextBootMode.	Integer	read-write
systemGuid	1.3.6.1.4.1.3902.2601.15.1.1.8	-	DisplayString	read-only
deviceName	1.3.6.1.4.1.3902.2601.15.1.1.9	Device name, range: 1–63 characters.	DisplayString	read-only
deviceSerialNo	1.3.6.1.4.1.3902.2601.15.1.1.10	Device SN, range: 1–63 characters.	DisplayString	read-only
hostName	1.3.6.1.4.1.3902.2601.15.1.1.11	-	DisplayString	read-only
boardAssetTag	1.3.6.1.4.1.3902.2601.15.1.1.12	-	DisplayString	read-write
chassisIntrusionState	1.3.6.1.4.1.3902.2601.15.1.1.13	Chassis intrusion state. ● normal(1) ● chassisIntrusion(2) ● unknown(-1)	Integer	read-only
systemPowerState	1.3.6.1.4.1.3902.2601.15.1.1.14	System Power Status Get. ● Power Status Is Off(0) ● Power Status Is On(1) System Power Status Set. ● Power Off(0) ● Power On(1) ● Forced Power Off Then Power On(2)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• Forced System Restart(3) • Normal Power Off(5) The set actions are a process which will take effect in a while. When system in powerOff state, Power Off/ Reset/ PowerCycle commonds are not supported.		
systemPowerOnPolicy	1.3.6.1.4.1.3902.2601.15.1.1.15	• Stay Off(1) • Restore Previous State(2) • Turn On(3)	Integer	read-write
systemPresentPower	1.3.6.1.4.1.3902.2601.15.1.1.16	Display the present system power.	Integer	read-write
identify	1.3.6.1.4.1.3902.2601.15.1.1.17	Identify use to control on or off of led. identify mode: • Off(0) • Temporary On(1) • Force Identify On(2) set format: <mode>,[ontime] get format: <mode> When <mode> = 0 or <mode> = 2, the format is only <mode>. [ontime] is option and value is in [1,255]. When set Temporary On without [ontime], the default Temporary On time are 255 seconds.	DisplayString	read-write
systemCpuUsage	1.3.6.1.4.1.3902.2601.15.1.1.18	Percent of CPU usage. The value defined as: • -1 : invalid current CPU usage. • [0,100] : represents the current CPU usage. • 255 : unknown Note: • If iSDMA has been installed and started on the OS, iSDMA provides the CPU usage data, which is consistent with that collected by the OS. • If iSDMA is not installed or started, the Intel ME provides the	Integer	read-only

Object Name	OID	Description	Type	Permission
		CPU usage data, which is compute utilization per second of all cores calculated by CPU internal modules.		
system-MemUsage	1.3.6.1.4.1.3902.2601.15.1.1.19	Percent of memory usage. The value defined as: ● -1 : invalid current memory usage. ● [0,100] : represents the current memory usage. ● 255 : unknown Note: ● If iSDMA has been installed and started on the OS, iSDMA provides the memory usage data, which is consistent with that collected by the OS. ● If iBMA is not installed or started, the Intel ME provides the memory bandwidth usage, which is different from the memory usage collected by the OS.	Integer	read-only
systemIoUsage	1.3.6.1.4.1.3902.2601.15.1.1.20	Percent of I/O usage. The value defined as: ● -1 : invalid current I/O usage. ● [0,100] : represents the current I/O usage. ● 255 : unknown Note: The Intel management Engine (ME) provides the I/O usage. Other CPU platforms don't support this usage.	Integer	read-only
systemCpu-UsageThre	1.3.6.1.4.1.3902.2601.15.1.1.21	Percent of CPU usage threshold. This value is in [0,100]. If the value is more than 100, the alarm is disabled.	Integer	read-write
system-MemUsageThre	1.3.6.1.4.1.3902.2601.15.1.1.22	Percent of memory usage threshold. This value is in [0,100]. If the value is more than 100, the alarm is disabled.	Integer	read-write

Object Name	OID	Description	Type	Permission
systemDiskPartitionUsageThre	1.3.6.1.4.1.3902.2601.15.1.1.23	Percent of hard disk partition usage threshold. This value is in [0,100]. If the value is more than 100, the alarm is disabled.	Integer	read-write
bmcReboot	1.3.6.1.4.1.3902.2601.15.1.1.24	Reboot the BMC management system. When set, the value is only 1, write only.	Integer	write-only
systemCurrentBootMode	1.3.6.1.4.1.3902.2601.15.1.1.25	Describe the current system's boot mode: ● Legacy(0) ● UEFI(1) ● Unknown(255) The default value is UEFI(1). Servers with ARM processors and G6 Intel processors do not support legacy mode.	Integer	read-only

3.1.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.1.3 Constraints on Set Operations

The Set operation is supported.

3.1.4 Example

```
***** SNMP QUERY STARTED *****
1: systemHealth.0 (integer) ok(0)
2: systemTime.0 (octet string) 2000-01-03 10:48:43
   [32.30.30.30.2D.30.31.2D.30.33.20.31.30.3A.34.38.3A.34.33 (hex)]
3: systemTimeZone.0 (integer) 480
4: systemTimeZoneStr.0 (octet string) UTC+08:00 [55.54.43.2B.30.38.3A.30.30 (hex)]
5: systemBootsequence.0 (integer) noOverride(0)
6: systemNextBootMode.0 (integer) UEFI(1)
7: systemBootOnce.0 (integer) permanent(1)
8: systemGuid.0 (octet string) 30e72400-0000-1000-0000-000000000000
   [33.30.65.37.32.34.30.30.2D.30.30.30.30.2D.31.30.30.30.2D.30.30.30.30.2D.30.30.30.30.30.
    30.30.30.30.30.30.30 (hex)]
9: deviceName.0 (octet string) (zero-length)
10: deviceSerialNo.0 (octet string) (zero-length)
```

```
11: hostName.0 (octet string) iSAC0E68FAABD2C0
    [69.53.41.43.30.45.36.38.46.41.41.42.44.32.43.30 (hex)]
12: boardAssetTag.0 (octet string) (zero-length)
13: chassisIntrusionState.0 (integer) 0
14: systemPowerState.0 (integer) powerOn(1)
15: systemPowerOnPolicy.0 (integer) restorePreviousState(2)
16: systemPresentPower.0 (integer) 0
17: identify.0 (octet string) <00> [00 (hex)]
18: systemCpuUsage.0 (integer) -1
19: systemMemUsage.0 (integer) -1
20: systemIoUsage.0 (integer) -1
21: systemCpuUsageThre.0 (integer) 75
22: systemMemUsageThre.0 (integer) 75
23: systemDiskPartitionUsageThre.0 (integer) 75
25: systemCurrentBootMode.0 (integer) UEFI(1)
***** SNMP QUERY FINISHED *****
```

3.2 domainNameSystem

3.2.1 Function

Parent Node

The domainNameSystem node contains a total of seven scalar objects, including the DNS enabling status, DNS server setting, registration option, domain name, preferred DNS server, alternate DNS server 1, and alternate DNS server 2.

The OID of the domainNameSystem node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).domainNameSystem(2)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
dnsEnable	1.3.6.1.4.1.3902.2601.15.1.2.1	Information about DNS enabling status. ● disable(1) ● enable(2)	Integer	read-only
dnsServerSetup	1.3.6.1.4.1.3902.2601.15.1.2.2	Information about DNS server setup.	Integer	read-only

Object Name	OID	Description	Type	Permission
		• manual(1) • autoBaseIPv4(2) • autoBaseIPv6(3)		
dnsDynamicReg-istration	1.3.6.1.4.1.3902.2601.15.1.2.3	Information about DNS dynamic registration method. • hostname(1) • FQDN(2)	Integer	read-only
dnsDomainName	1.3.6.1.4.1.3902.2601.15.1.2.4	Domain name.	DisplayString	read-only
pre-ferredDNSServer	1.3.6.1.4.1.3902.2601.15.1.2.5	Preferred DNS server address.	DisplayString	read-only
alternateD-NSServer1	1.3.6.1.4.1.3902.2601.15.1.2.6	Alternate DNS server address. Its value can be empty.	DisplayString	read-only
alternateD-NSServer2	1.3.6.1.4.1.3902.2601.15.1.2.7	Alternate DNS server address. Its value can be empty.	DisplayString	read-only

3.2.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.2.3 Constraints on Set Operations

The Set operation is not supported.

3.2.4 Example

```
***** SNMP QUERY STARTED *****
1: dnsEnable.0 (integer) disable(1)
2: dnsServerSetup.0 (integer) autoBaseIPv4(2)
3: dnsDynamicRegistration.0 (integer) FQDN(2)
4: dnsDomainName.0 (octet string) (zero-length)
5: preferredDNSServer.0 (octet string) :: [3A.3A (hex)]
6: alternateDNSServer1.0 (octet string) 0.0.0.0 [30.2E.30.2E.30.2E.30 (hex)]
7: alternateDNSServer2.0 (octet string) :: [3A.3A (hex)]
***** SNMP QUERY FINISHED *****
```

3.3 ntp

3.3.1 Function

Parent Node

The ntp node contains a total of five scalar objects, including the time synchronization source, primary NTP server, secondary NTP server, tertiary NTP server, and NTP time synchronization interval.

The OID of the ntp node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).ntp(5)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
bmcTimeSource	1.3.6.1.4.1.3902.2601.15.1.5.1	Information about NTP sync status. ● fromNtp(1) ● fromBios(2)	Integer	read-write
primaryNtpServer	1.3.6.1.4.1.3902.2601.15.1.5.2	NTP primary server. IPv4 or IPv6 address, or domain name of the preferred NTP server. The default value is a null string. Setting the value to 0.0.0.0 can clear the parameter value.	DisplayString	read-write
secondaryNt-pServer	1.3.6.1.4.1.3902.2601.15.1.5.3	NTP secondary server. IPv4 or IPv6 address, or domain name of the preferred NTP server. The default value is a null string. Setting the value to 0.0.0.0 can clear the parameter value.	DisplayString	read-write
tertiaryNtpServer	1.3.6.1.4.1.3902.2601.15.1.5.4	NTP tertiary server. IPv4 or IPv6 address, or domain name of the preferred NTP server. The default value is a null string. Setting the value to 0.0.0.0 can clear the parameter value.	DisplayString	read-write
ntpInterval	1.3.6.1.4.1.3902.2601.15.1.5.5	NTP time synchronization interval (seconds). Min value is 60 s.	Integer	read-write

3.3.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.3.3 Constraints on Set Operations

The Set operation is supported.

3.3.4 Example

```
***** SNMP QUERY STARTED *****
1: bmcTimeSource.0 (integer) fromBios(2)
2: primaryNtpServer.0 (octet string) (zero-length)
3: secondaryNtpServer.0 (octet string) (zero-length)
4: tertiaryNtpServer.0 (octet string) (zero-length)
5: ntpInterval.0 (integer) 60
***** SNMP QUERY FINISHED *****
```

3.4 syslog

3.4.1 Function

Parent Node

The syslog node contains both scalar objects and tabular objects.

- The scalar objects include the syslog enabling status, server ID, transmission protocol, and TLS authentication mode.
- The tabular objects include the syslog receiver index, syslog receiver enabling status, address of the receiver, port number of the receiver, type of log transmitted, and syslog testing.

The OID of the syslog node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).syslog(6)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
syslogEnable	1.3.6.1.4.1.3902.2601.15.1.6.1	Syslog enabling status. ● disable(1) ● enable(2) Default value is enable(2).	Integer	read-write
syslogIdentity	1.3.6.1.4.1.3902.2601.15.1.6.2	Server ID used during syslog sending.	Integer	read-write

Object Name	OID	Description	Type	Permission
		● boardSN(1) ● productAssetTag(2) ● hostName(3)		
syslogProto-colType	1.3.6.1.4.1.3902.2601.15.1.6.3	Syslog protocol type. ● udp(1): When receiving messages using the UDP protocol. ● tcp(2): When receiving messages using the TCP protocol. ● tls(3): When receiving messages using the TLS protocol.	Integer	read-write
syslogAuthMode	1.3.6.1.4.1.3902.2601.15.1.6.4	TLS authentication mode. ● oneway(1) ● twoway(2) ● na(255) When set, 255 is not supported.	Integer	read-write

Tabular Objects

The syslogInfoDescriptionEntry node describes the tabular objects in the syslogInfoDescriptionTable table. The OID of the syslogInfoDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).syslog(6).trapInfoDescriptionTable(50).syslogInfoDescriptionEntry(1)

Note

x indicates the serial number of the syslog receiver.

Object Name	OID	Description	Type	Permission
syslogReceiverIndex	1.3.6.1.4.1.3902.2601.15.1.6.50.1.1.x	Information about syslog receiver index.	Integer	read-only
syslogReceiver-Enable	1.3.6.1.4.1.3902.2601.15.1.6.50.1.2.x	Syslog receiver state. ● disable(1) ● enable(2)	Integer	read-write
syslogReceiver-Address	1.3.6.1.4.1.3902.2601.15.1.6.50.1.3.x	Syslog receiver IP address. Default value is empty.	DisplayString	read-write
syslogReceiver-Port	1.3.6.1.4.1.3902.2601.15.1.6.50.1.4.x	Syslog receiver port. Default value is 514.	Integer	read-write

Object Name	OID	Description	Type	Permission
syslogSendLog-Type	1.3.6.1.4.1.3902.2601.15.1.6.50.1.5.x	Log type of syslog to send. Support set/get any combination of the 3 log type (OperationLogs, SecurityLogs, EventLogs), use comma to separate them. All is also supported, but never use it with the 3 log types together. ● To set OperationLogs + SecurityLogs log type message, just set: OperationLogs, SecurityLogs. ● To set EventLogs message, just set: EventLogs. ● To set all level message, just set: all.	DisplayString	read-write
syslogReceiverTest	1.3.6.1.4.1.3902.2601.15.1.6.50.1.6.x	Test the syslog. When set, the value is only 1.	Integer	read-write

3.4.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.4.3 Constraints on Set Operations

The Set operation is supported.

3.4.4 Example

```
***** SNMP QUERY STARTED *****
1: syslogEnable.0 (integer) disable(1)
2: syslogIdentity.0 (integer) boardSN(1)
3: syslogProtocolType.0 (integer) tls(3)
4: syslogAuthMode.0 (integer) twoway(2)
5: syslogReceiverIndex.0 (integer) 0
6: syslogReceiverIndex.1 (integer) 1
7: syslogReceiverIndex.2 (integer) 2
8: syslogReceiverIndex.3 (integer) 3
9: syslogReceiverEnable.0 (integer) disable(1)
10: syslogReceiverEnable.1 (integer) disable(1)
11: syslogReceiverEnable.2 (integer) disable(1)
```

```
12: syslogReceiverEnable.3 (integer) disable(1)
13: syslogReceiverAddress.0 (octet string) (zero-length)
14: syslogReceiverAddress.1 (octet string) (zero-length)
15: syslogReceiverAddress.2 (octet string) (zero-length)
16: syslogReceiverAddress.3 (octet string) (zero-length)
17: syslogReceiverPort.0 (integer) 514
18: syslogReceiverPort.1 (integer) 514
19: syslogReceiverPort.2 (integer) 514
20: syslogReceiverPort.3 (integer) 514
21: syslogSendLogType.0 (octet string) (zero-length)
22: syslogSendLogType.1 (octet string) (zero-length)
23: syslogSendLogType.2 (octet string) (zero-length)
24: syslogSendLogType.3 (octet string) (zero-length)
25: syslogReceiverTest.0 (integer) 0
26: syslogReceiverTest.1 (integer) 0
27: syslogReceiverTest.2 (integer) 0
28: syslogReceiverTest.3 (integer) 0
***** SNMP QUERY FINISHED *****
```

3.5 trap

3.5.1 Function

Parent Node

The trap node contains both scalar objects and tabular objects.

- The scalar objects include the trap enabling status, trap version, trap community string, username for SNMPv3 traps, trap server ID, and trap level.
- The tabular objects include the trap receiver index, trap receiver enabling status, address of the trap receiver, port number of the trap receiver, and trap testing.

The OID of the trap node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).trap(7)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
trapEnable	1.3.6.1.4.1.3902.2601.15.1.7.1	Trap enabling status.	Integer	read-write

Object Name	OID	Description	Type	Permission
		This value will be one of the following: ● disable(0) ● enable(1)		
trapVersion	1.3.6.1.4.1.3902.2601.15.1.7.2	Trap version. This value will be one of the following: ● v1(1) ● v2c(2) ● v3(3)	Integer	read-write
trapCommunity	1.3.6.1.4.1.3902.2601.15.1.7.3	SNMP trap community is a string of 1 to 18 alpha-numeric and special characters. Special characters: visible character except ' '(space), '"(single quotes), '\'(Backslash), '#'(#) cannot be at the beginning.	DisplayString	read-write
trapSecurityUserName	1.3.6.1.4.1.3902.2601.15.1.7.4	Security username for SNMP TRAP V3. The user should be one of the BMC local users (with SNMP channel permission).	DisplayString	read-write
trapServerIdentity	1.3.6.1.4.1.3902.2601.15.1.7.5	Server ID used during trap sending. ● boardSN(1) ● productAssetTag(2) ● hostName(3)	Integer	read-write
trapLevel	1.3.6.1.4.1.3902.2601.15.1.7.6	Level of traps to be sent. ● inform(1): send all level message. ● minor(2): send minor and above level message. ● major(3): send major and above level message. ● critical(4): send critical level message.	Integer	read-write

Tabular Objects

The trapInfoDescriptionEntry node describes the tabular objects in the trapInfoDescriptionTable table. The OID of the trapInfoDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).trap(7).trapInfoDescriptionTable(50).trapInfoDescriptionEntry(1)

Note

x indicates the serial number of the trap receiver.

Object Name	OID	Description	Type	Permission
trapReceiverIndex	1.3.6.1.4.1.3902.2601.15.1.7.50.1.1.x	Trap receiver index.	Integer	read-only
trapReceiverEnable	1.3.6.1.4.1.3902.2601.15.1.7.50.1.2.x	Trap receiver state. • disable(0) • enable(1)	Integer	read-write
trapReceiverPort	1.3.6.1.4.1.3902.2601.15.1.7.50.1.3.x	SNMP trap port (1~65535), default: 162.	Integer	read-write
trapReceiverAddress	1.3.6.1.4.1.3902.2601.15.1.7.50.1.4.x	Trap receiver IPv4 address, IPv6 address or domain name. Default value is empty.	DisplayString	read-write
trapTest	1.3.6.1.4.1.3902.2601.15.1.7.50.1.5.x	Test whether SNMP traps can be sent. When set, the value is only 1.	Integer	read-write

3.5.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.5.3 Constraints on Set Operations

The Set operation is supported.

3.5.4 Example

```
1: trapEnable.0 (integer) enable(1)
2: trapVersion.0 (integer) v2c(2)
3: trapCommunity.0 (octet string) public [70.75.62.6C.69.63 (hex)]
4: trapSecurityUserName.0 (octet string) (zero-length)
5: trapServerIdentity.0 (integer) boardSN(1)
6: trapLevel.0 (integer) inform(1)
7: trapReceiverIndex.1 (integer) 1
8: trapReceiverIndex.2 (integer) 2
9: trapReceiverIndex.3 (integer) 3
10: trapReceiverIndex.4 (integer) 4
```

```
11: trapReceiverEnable.1 (integer) disable(0)
12: trapReceiverEnable.2 (integer) disable(0)
13: trapReceiverEnable.3 (integer) disable(0)
14: trapReceiverEnable.4 (integer) disable(0)
15: trapReceiverPort.1 (integer) 162
16: trapReceiverPort.2 (integer) 162
17: trapReceiverPort.3 (integer) 162
18: trapReceiverPort.4 (integer) 162
19: trapReceiverAddress.1 (octet string) (zero-length)
20: trapReceiverAddress.2 (octet string) (zero-length)
21: trapReceiverAddress.3 (octet string) (zero-length)
22: trapReceiverAddress.4 (octet string) (zero-length)
23: trapTest.1 (integer) 0
24: trapTest.2 (integer) 0
25: trapTest.3 (integer) 0
26: trapTest.4 (integer) 0
***** SNMP QUERY FINISHED *****
```

3.6 smtp

3.6.1 Function

Parent Node

The smtp node contains both scalar objects and tabular objects.

- The scalar objects include the SMTP enabling status, address of the SMTP server, port number of the SMTP server, TLS enabling status, login type, login account, login password, destination address, email subject, and host ID.
- The tabular objects include the SMTP receiver index, SMTP receiver enabling status, email address, and email description.

The OID of the smtp node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).smtp(8)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
smtpEnable	1.3.6.1.4.1.3902.2601.15.1.8.1	SMTP enabling status. ● disable(1)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• enable(2) Default value is disable(1).		
smtpServerIP	1.3.6.1.4.1.3902.2601.15.1.8.3	SMTP server IPv4 address, IPv6 address or domain name.	DisplayString	read-only
smtpServerPort	1.3.6.1.4.1.3902.2601.15.1.8.4	SMTP server port.	Integer	read-only
smtpTLSEnable	1.3.6.1.4.1.3902.2601.15.1.8.5	TLS state for SMTP. • disable(1) • enable(2) Default value is disenable(1).	Integer	read-only
smtpLoginType	1.3.6.1.4.1.3902.2601.15.1.8.6	SMTP login type. • anonymous(1) • account(2) Default value is anonymous(1).	Integer	read-only
smtpLoginAccount	1.3.6.1.4.1.3902.2601.15.1.8.7	Login account between 1 to 64 characters. A login account supports all characters except space, double quotationthe, equal and the following characters: #'&.	DisplayString	read-only
smtpLoginPassword	1.3.6.1.4.1.3902.2601.15.1.8.8	Set user login SMTP password. Login password between 1 to 50 characters.	DisplayString	read-only
smtpSendAddr	1.3.6.1.4.1.3902.2601.15.1.8.9	SendAddr between 0 to 255 characters. A sendAddr supports all characters except space, double quotation, equal and the following characters: #'&..	DisplayString	read-only
smtpMailTitle	1.3.6.1.4.1.3902.2601.15.1.8.10	SMTP email title.	DisplayString	read-only
smtpHostIdentify	1.3.6.1.4.1.3902.2601.15.1.8.11	Host ID in the SMTP email title. Support set/get any combination of the 3 levels (BoardSN, AssetTag, HostName) e.g. "BoardSN, AssetTag,HostName"	DisplayString	read-only

Tabular Objects

The smtpReceiverDescriptionEntry node describes the tabular objects in the smtpReceiverDescriptionTable table. The OID of the smtpReceiverDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).smtp(8).smtpReceiverDescriptionTable(50).smtpReceiverDescriptionEntry(1)

Note

x indicates the serial number of the SMTP receiver.

Object Name	OID	Description	Type	Permission
smtpReceiverIndex	1.3.6.1.4.1.3902.2601.15.1.8.50.1.1.x	SMTP receiver index.	Integer	read-only
smtpReceiverState	1.3.6.1.4.1.3902.2601.15.1.8.50.1.2.x	SMTP receiver enabling state. ● disable(1) ● enable(2) Default value is disable(1).	Integer	read-only
smtpReceiverAddr	1.3.6.1.4.1.3902.2601.15.1.8.50.1.3.x	Email address between 0 to 255 characters. A email address supports all characters except space, double quotation, equal and the following characters: #'&..	DisplayString	read-only
smtpReceiverDescription	1.3.6.1.4.1.3902.2601.15.1.8.50.1.4.x	Email description between 0 to 255 characters. A email description supports all characters except double quotation, equal and the following characters: #'&..	DisplayString	read-only

3.6.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.6.3 Constraints on Set Operations

The Set operation is not supported.

3.6.4 Example

```
***** SNMP QUERY STARTED *****

1: smtpEnable.0 (integer) disable(1)

2: smtpServerIP.0 (octet string) (zero-length)
```

```
3: smtpServerPort.0 (integer) 25
4: smtpTLSEnable.0 (integer) disable(1)
5: smtpLoginType.0 (integer) anonymous(1)
6: smtpLoginAccount.0 (octet string) (zero-length)
7: smtpLoginPassword.0 (octet string) (zero-length)
8: smtpSendAddr.0 (octet string) (zero-length)
9: smtpMailTitle.0 (octet string) Server Alert [53.65.72.76.65.72.20.41.6C.65.72.74 (hex)]
10: smtpHostIdentify.0 (octet string) (zero-length)
11: smtpReceiverIndex.1 (integer) 1
12: smtpReceiverIndex.2 (integer) 2
13: smtpReceiverIndex.3 (integer) 3
14: smtpReceiverIndex.4 (integer) 4
15: smtpReceiverState.1 (integer) disable(1)
16: smtpReceiverState.2 (integer) disable(1)
17: smtpReceiverState.3 (integer) disable(1)
18: smtpReceiverState.4 (integer) disable(1)
19: smtpReceiverAddr.1 (octet string) (zero-length)
20: smtpReceiverAddr.2 (octet string) (zero-length)
21: smtpReceiverAddr.3 (octet string) (zero-length)
22: smtpReceiverAddr.4 (octet string) (zero-length)
23: smtpReceiverDescription.1 (octet string) (zero-length)
24: smtpReceiverDescription.2 (octet string) (zero-length)
25: smtpReceiverDescription.3 (octet string) (zero-length)
26: smtpReceiverDescription.4 (octet string) (zero-length)
***** SNMP QUERY FINISHED *****
```

3.7 powerSupplyProperty

3.7.1 Function

Parent Node

The powerSupplyProperty node contains both scalar objects and tabular objects.

- The scalar objects include the maximum number of power supplies supported, and number of present power supplies.
- The tabular objects in the powerSupplyPresenceTable table include the location and presence status.
- The tabular objects in the powerSupplyDescriptionTable table include the index, location, device name, health status, output status, manufacturer, serial number, production date,

production mode, firmware version, part number, highest operating environment temperature, lowest operating environment temperature, current temperature, input mode, maximum output power, current output power, current input power, current output voltage, current input voltage, and operating mode.

- The tabular objects in the powerSupplyGroupTable table include the group index, entire status of the power supply, setted mode of the power supply, actual mode of the power supply, and activated power supply.

The OID of the powerSupplyProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).powerSupplyProperty(10)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
powerSupply-MaxSupportNum	1.3.6.1.4.1.3902.2601.15.1.10.1	Maximum number of power supplies supported.	Integer	read-only
powerSupplyPresentNum	1.3.6.1.4.1.3902.2601.15.1.10.2	Number of present power supplies.	Integer	read-only

Tabular Objects

The powerSupplyPresenceEntry node describes the tabular objects in the powerSupplyPresenceTable table. The OID of the powerSupplyPresenceEntry node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).powerSupplyProperty(10).powerSupplyPresenceTable(50).powerSupplyPresenceEntry(1)

Note

x indicates the serial number of the power supply.

Object Name	OID	Description	Type	Permission
powerSupplyLocationSlot	1.3.6.1.4.1.3902.2601.15.1.10.50.1.1.x	Information about power supply location slot.	Integer	read-only
powerSupplyPresenceStatus	1.3.6.1.4.1.3902.2601.15.1.10.50.1.2.x	Information about power supply presence. ● absence(1) ● presence(2)	Integer	read-only

The powerSupplyDescriptionEntry node describes the tabular objects in the powerSupplyDescriptionTable table. The OID of the powerSupplyDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).powerSupplyProperty(10).powerSupplyDescriptionTable(51).powerSupplyDescriptionEn try(1)

Note

x indicates the serial number of the power supply.

Object Name	OID	Description	Type	Permission
powerSupplyIndex	1.3.6.1.4.1.3902.2601.15.1.10.51.1.1.x	Information about power supply index.	Integer	read-only
powerSupplyLocation	1.3.6.1.4.1.3902.2601.15.1.10.51.1.2.x	Information about power supply location.	Integer	read-only
powerSupplyName	1.3.6.1.4.1.3902.2601.15.1.10.51.1.3.x	Information about power supply name.	DisplayString	read-only
powerSupplyHealthStatus	1.3.6.1.4.1.3902.2601.15.1.10.51.1.4.x	Information about power supply health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
powerSupplyOutputStatus	1.3.6.1.4.1.3902.2601.15.1.10.51.1.5.x	Information about power supply output status. ● close(0) ● open(1) ● unknown(65535).	Integer	read-only
powerSupplyManufacture	1.3.6.1.4.1.3902.2601.15.1.10.51.1.6.x	Information about power supply manufacturer name.	DisplayString	read-only
powerSupplySN	1.3.6.1.4.1.3902.2601.15.1.10.51.1.7.x	Information about power supply manufacture serial number.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
powerSupplyManufactureDate	1.3.6.1.4.1.3902.2601.15.1.10.51.1.8.x	Information about power supply manufacturing date.	DisplayString	read-only
powerSupplyManufactureModel	1.3.6.1.4.1.3902.2601.15.1.10.51.1.9.x	Information about power supply model.	DisplayString	read-only
powerSupplyVersion	1.3.6.1.4.1.3902.2601.15.1.10.51.1.10.x	Information about power supply version.	DisplayString	read-only
powerSupplyPartNum	1.3.6.1.4.1.3902.2601.15.1.10.51.1.11.x	Information about power supply part number.	DisplayString	read-only
powerSupplyMaxAmbientTemperature	1.3.6.1.4.1.3902.2601.15.1.10.51.1.12.x	Maximum ambient temperature for power supply operation(degree C).	Integer	read-only
powerSupplyMinAmbientTemperature	1.3.6.1.4.1.3902.2601.15.1.10.51.1.13.x	Minimum ambient temperature for power supply operation(degree C). unknown(65535).	Integer	read-only
powerSupplyCurrentTemperature	1.3.6.1.4.1.3902.2601.15.1.10.51.1.14.x	Information about power supply current temperature(degree C). unknown(65535).	Integer	read-only
powerSupplyInputMode	1.3.6.1.4.1.3902.2601.15.1.10.51.1.15.x	Information about power supply input mode.	DisplayString	read-only
powerSupplyMaxOutputPower	1.3.6.1.4.1.3902.2601.15.1.10.51.1.16.x	Information about power supply max output power(w). unknown(65535).	Integer	read-only
powerSupplyOutputPower	1.3.6.1.4.1.3902.2601.15.1.10.51.1.17.x	Information about power supply current output power(w). unknown(65535).	Integer	read-only
powerSupplyInputPower	1.3.6.1.4.1.3902.2601.15.1.10.51.1.18.x	Information about power supply current input power(w). unknown(65535).	Integer	read-only
powerSupplyVoltageOut	1.3.6.1.4.1.3902.2601.15.1.10.51.1.19.x	Information about power supply current output voltage(V).	DisplayString	read-only

Object Name	OID	Description	Type	Permission
powerSupplyVolt-ageIn	1.3.6.1.4.1.3902.2601.15.1.10.51.1.20.x	Information about power supply cur- rent input voltage(V).	DisplayString	read-only
powerSupply-WorkMode	1.3.6.1.4.1.3902.2601.15.1.10.51.1.21.x	Information about power supply working mode. ● active(1) ● backup(2) ● unknown(65535)	Integer	read-only

The powThe powerSupplyGroupEntry node describes the tabular objects in the powerSupplyGroupT- able table. The OID of the powerSupplyGroupEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).powerSupplyProperty(10).powerSupplyGroupTable(52).powerSupplyGroupEntry(1)

Note

x indicates the serial number of the group.

Object Name	OID	Description	Type	Permission
powerSupply-GroupIndex	1.3.6.1.4.1.3902.2601.15.1.10.52.1.1.x	Information about power supply group index. ● mainboard(1) ● gpu(2)	Integer	read-only
powerSupplyEn-tireStatus	1.3.6.1.4.1.3902.2601.15.1.10.52.1.2.x	Information about all power supply health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
settedPowerSup-plyEntireMode	1.3.6.1.4.1.3902.2601.15.1.10.52.1.3.x	Setted power supply entire mode. ● loadBalance(1) ● activeBackup(2) ● unsupport(65535)	Integer	read-only
actualPowerSup-plyEntireMode	1.3.6.1.4.1.3902.2601.15.1.10.52.1.4.x	Actual power supply entire mode. ● loadBalance(1) ● activeBackup(2) ● unsupport(65535)	Integer	read-only
settedActivePow-erSupply	1.3.6.1.4.1.3902.2601.15.1.10.52.1.5.x	Setted active power supply. Per bit represents a PS, bit0 is PS1, and so on, the bit value of 1 indi-	Integer	read-only

Object Name	OID	Description	Type	Permission
		cates the PS is active. You can not set all PS are active or backup. The result 0 is unsupport.		

3.7.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.7.3 Constraints on Set Operations

The Set operation is not supported.

3.7.4 Example

```
***** SNMP QUERY STARTED *****
1: powerSupplyMaxSupportNum.0 (integer) 8
2: powerSupplyPresentNum.0 (integer) 8
3: powerSupplyLocationSlot.1 (integer) 1
4: powerSupplyLocationSlot.2 (integer) 2
5: powerSupplyLocationSlot.3 (integer) 3
6: powerSupplyLocationSlot.4 (integer) 4
7: powerSupplyLocationSlot.5 (integer) 5
8: powerSupplyLocationSlot.6 (integer) 6
9: powerSupplyLocationSlot.7 (integer) 7
10: powerSupplyLocationSlot.8 (integer) 8
11: powerSupplyPresenceStatus.1 (integer) presence(2)
12: powerSupplyPresenceStatus.2 (integer) presence(2)
13: powerSupplyPresenceStatus.3 (integer) presence(2)
14: powerSupplyPresenceStatus.4 (integer) presence(2)
15: powerSupplyPresenceStatus.5 (integer) presence(2)
16: powerSupplyPresenceStatus.6 (integer) presence(2)
17: powerSupplyPresenceStatus.7 (integer) presence(2)
18: powerSupplyPresenceStatus.8 (integer) presence(2)
19: powerSupplyIndex.1 (integer) 1
20: powerSupplyIndex.2 (integer) 2
21: powerSupplyIndex.3 (integer) 3
22: powerSupplyIndex.4 (integer) 4
23: powerSupplyIndex.5 (integer) 5
24: powerSupplyIndex.6 (integer) 6
```

```
25: powerSupplyIndex.7 (integer) 7
26: powerSupplyIndex.8 (integer) 8
27: powerSupplyLocation.1 (integer) 1
28: powerSupplyLocation.2 (integer) 2
29: powerSupplyLocation.3 (integer) 3
30: powerSupplyLocation.4 (integer) 4
31: powerSupplyLocation.5 (integer) 5
32: powerSupplyLocation.6 (integer) 6
33: powerSupplyLocation.7 (integer) 7
34: powerSupplyLocation.8 (integer) 8
35: powerSupplyName.1 (octet string) PSU1 [50.53.55.31 (hex)]
36: powerSupplyName.2 (octet string) PSU2 [50.53.55.32 (hex)]
37: powerSupplyName.3 (octet string) PSU3 [50.53.55.33 (hex)]
38: powerSupplyName.4 (octet string) PSU4 [50.53.55.34 (hex)]
39: powerSupplyName.5 (octet string) PSU5 [50.53.55.35 (hex)]
40: powerSupplyName.6 (octet string) PSU6 [50.53.55.36 (hex)]
41: powerSupplyName.7 (octet string) PSU7 [50.53.55.37 (hex)]
42: powerSupplyName.8 (octet string) PSU8 [50.53.55.38 (hex)]
43: powerSupplyHealthStatus.1 (integer) ok(0)
44: powerSupplyHealthStatus.2 (integer) ok(0)
45: powerSupplyHealthStatus.3 (integer) ok(0)
46: powerSupplyHealthStatus.4 (integer) ok(0)
47: powerSupplyHealthStatus.5 (integer) ok(0)
48: powerSupplyHealthStatus.6 (integer) ok(0)
49: powerSupplyHealthStatus.7 (integer) ok(0)
50: powerSupplyHealthStatus.8 (integer) ok(0)
51: powerSupplyOutputStatus.1 (integer) open(1)
52: powerSupplyOutputStatus.2 (integer) open(1)
53: powerSupplyOutputStatus.3 (integer) open(1)
54: powerSupplyOutputStatus.4 (integer) open(1)
55: powerSupplyOutputStatus.5 (integer) open(1)
56: powerSupplyOutputStatus.6 (integer) open(1)
57: powerSupplyOutputStatus.7 (integer) open(1)
58: powerSupplyOutputStatus.8 (integer) open(1)
59: powerSupplyManufacture.1 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
60: powerSupplyManufacture.2 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
61: powerSupplyManufacture.3 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
```

```
62: powerSupplyManufacture.4 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
63: powerSupplyManufacture.5 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
64: powerSupplyManufacture.6 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
65: powerSupplyManufacture.7 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
66: powerSupplyManufacture.8 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C (hex)]
67: powerSupplySN.1 (octet string) 22N090000556 [32.32.4E.30.39.30.30.30.30.35.35.36 (hex)]
68: powerSupplySN.2 (octet string) 22N110000933 [32.32.4E.31.31.30.30.30.30.39.33.33 (hex)]
69: powerSupplySN.3 (octet string) 22N110000934 [32.32.4E.31.31.30.30.30.30.39.33.34 (hex)]
70: powerSupplySN.4 (octet string) 22N090000570 [32.32.4E.30.39.30.30.30.30.35.37.30 (hex)]
71: powerSupplySN.5 (octet string) 22N090000562 [32.32.4E.30.39.30.30.30.30.35.36.32 (hex)]
72: powerSupplySN.6 (octet string) 22N090000552 [32.32.4E.30.39.30.30.30.30.35.35.32 (hex)]
73: powerSupplySN.7 (octet string) 22N080000628 [32.32.4E.30.38.30.30.30.30.36.32.38 (hex)]
74: powerSupplySN.8 (octet string) 22N070001019 [32.32.4E.30.37.30.30.30.31.30.31.39 (hex)]
75: powerSupplyManufactureDate.1 (octet string) 230922 [32.33.30.39.32.32 (hex)]
76: powerSupplyManufactureDate.2 (octet string) 231105 [32.33.31.31.30.35 (hex)]
77: powerSupplyManufactureDate.3 (octet string) 231105 [32.33.31.31.30.35 (hex)]
78: powerSupplyManufactureDate.4 (octet string) 230922 [32.33.30.39.32.32 (hex)]
79: powerSupplyManufactureDate.5 (octet string) 230922 [32.33.30.39.32.32 (hex)]
80: powerSupplyManufactureDate.6 (octet string) 230922 [32.33.30.39.32.32 (hex)]
81: powerSupplyManufactureDate.7 (octet string) 230818 [32.33.30.38.31.38 (hex)]
82: powerSupplyManufactureDate.8 (octet string) 230822 [32.33.30.38.32.32 (hex)]
83: powerSupplyManufactureModel.1 (octet string) CRPS3200TS5 [43.52.50.53.33.32.30.30.54.
53.35 (hex)]
84: powerSupplyManufactureModel.2 (octet string) CRPS3200TS5 [43.52.50.53.33.32.30.30.54.
53.35 (hex)]
85: powerSupplyManufactureModel.3 (octet string) CRPS3200TS5 [43.52.50.53.33.32.30.30.54.
53.35 (hex)]
86: powerSupplyManufactureModel.4 (octet string) CRPS3200TS5 [43.52.50.53.33.32.30.30.54.
53.35 (hex)]
87: powerSupplyManufactureModel.5 (octet string) CRPS3200TS5 [43.52.50.53.33.32.30.30.54.
53.35 (hex)]
88: powerSupplyManufactureModel.6 (octet string) CRPS3200TS5 [43.52.50.53.33.32.30.30.54.
53.35 (hex)]
89: powerSupplyManufactureModel.7 (octet string) CRPS2700D2 [43.52.50.53.32.37.30.30.44.32
 (hex)]
90: powerSupplyManufactureModel.8 (octet string) CRPS2700D2 [43.52.50.53.32.37.30.30.44.32
 (hex)]
```

```
91: powerSupplyVersion.1 (octet string) DC:1.1 PFC:1.1 [44.43.3A.31.2E.31.20.50.46.43.3A.
31.2E.31 (hex)]
92: powerSupplyVersion.2 (octet string) DC:1.1 PFC:1.1 [44.43.3A.31.2E.31.20.50.46.43.3A.
31.2E.31 (hex)]
93: powerSupplyVersion.3 (octet string) DC:1.1 PFC:1.1 [44.43.3A.31.2E.31.20.50.46.43.3A.
31.2E.31 (hex)]
94: powerSupplyVersion.4 (octet string) DC:1.1 PFC:1.1 [44.43.3A.31.2E.31.20.50.46.43.3A.
31.2E.31 (hex)]
95: powerSupplyVersion.5 (octet string) DC:1.1 PFC:1.1 [44.43.3A.31.2E.31.20.50.46.43.3A.
31.2E.31 (hex)]
96: powerSupplyVersion.6 (octet string) DC:1.1 PFC:1.1 [44.43.3A.31.2E.31.20.50.46.43.3A.
31.2E.31 (hex)]
97: powerSupplyVersion.7 (octet string) DC:0.5 PFC:0.4 [44.43.3A.30.2E.35.20.50.46.43.3A.
30.2E.34 (hex)]
98: powerSupplyVersion.8 (octet string) DC:0.5 PFC:0.4 [44.43.3A.30.2E.35.20.50.46.43.3A.
30.2E.34 (hex)]
99: powerSupplyPartNum.1 (octet string) N/A [4E.2F.41 (hex)]
100: powerSupplyPartNum.2 (octet string) N/A [4E.2F.41 (hex)]
101: powerSupplyPartNum.3 (octet string) N/A [4E.2F.41 (hex)]
102: powerSupplyPartNum.4 (octet string) N/A [4E.2F.41 (hex)]
103: powerSupplyPartNum.5 (octet string) N/A [4E.2F.41 (hex)]
104: powerSupplyPartNum.6 (octet string) N/A [4E.2F.41 (hex)]
105: powerSupplyPartNum.7 (octet string) N/A [4E.2F.41 (hex)]
106: powerSupplyPartNum.8 (octet string) N/A [4E.2F.41 (hex)]
107: powerSupplyMaxAmbientTemperature.1 (integer) 55
108: powerSupplyMaxAmbientTemperature.2 (integer) 55
109: powerSupplyMaxAmbientTemperature.3 (integer) 55
110: powerSupplyMaxAmbientTemperature.4 (integer) 55
111: powerSupplyMaxAmbientTemperature.5 (integer) 55
112: powerSupplyMaxAmbientTemperature.6 (integer) 55
113: powerSupplyMaxAmbientTemperature.7 (integer) 55
114: powerSupplyMaxAmbientTemperature.8 (integer) 55
115: powerSupplyMinAmbientTemperature.1 (integer) 0
116: powerSupplyMinAmbientTemperature.2 (integer) 0
117: powerSupplyMinAmbientTemperature.3 (integer) 0
118: powerSupplyMinAmbientTemperature.4 (integer) 0
119: powerSupplyMinAmbientTemperature.5 (integer) 0
```

```
120: powerSupplyMinAmbientTemperature.6 (integer) 0
121: powerSupplyMinAmbientTemperature.7 (integer) 0
122: powerSupplyMinAmbientTemperature.8 (integer) 0
123: powerSupplyCurrentTemperature.1 (integer) 26
124: powerSupplyCurrentTemperature.2 (integer) 28
125: powerSupplyCurrentTemperature.3 (integer) 29
126: powerSupplyCurrentTemperature.4 (integer) 28
127: powerSupplyCurrentTemperature.5 (integer) 27
128: powerSupplyCurrentTemperature.6 (integer) 26
129: powerSupplyCurrentTemperature.7 (integer) 27
130: powerSupplyCurrentTemperature.8 (integer) 25
131: powerSupplyInputMode.1 (octet string) AC [41.43 (hex)]
132: powerSupplyInputMode.2 (octet string) AC [41.43 (hex)]
133: powerSupplyInputMode.3 (octet string) AC [41.43 (hex)]
134: powerSupplyInputMode.4 (octet string) AC [41.43 (hex)]
135: powerSupplyInputMode.5 (octet string) AC [41.43 (hex)]
136: powerSupplyInputMode.6 (octet string) AC [41.43 (hex)]
137: powerSupplyInputMode.7 (octet string) AC [41.43 (hex)]
138: powerSupplyInputMode.8 (octet string) AC [41.43 (hex)]
139: powerSupplyMaxOutputPower.1 (integer) 3200
140: powerSupplyMaxOutputPower.2 (integer) 3200
141: powerSupplyMaxOutputPower.3 (integer) 3200
142: powerSupplyMaxOutputPower.4 (integer) 3200
143: powerSupplyMaxOutputPower.5 (integer) 3200
144: powerSupplyMaxOutputPower.6 (integer) 3200
145: powerSupplyMaxOutputPower.7 (integer) 2700
146: powerSupplyMaxOutputPower.8 (integer) 2700
147: powerSupplyOutputPower.1 (integer) 0
148: powerSupplyOutputPower.2 (integer) 462
149: powerSupplyOutputPower.3 (integer) 465
150: powerSupplyOutputPower.4 (integer) 441
151: powerSupplyOutputPower.5 (integer) 0
152: powerSupplyOutputPower.6 (integer) 0
153: powerSupplyOutputPower.7 (integer) 455
154: powerSupplyOutputPower.8 (integer) 0
155: powerSupplyInputPower.1 (integer) 4
156: powerSupplyInputPower.2 (integer) 491
```

```
157: powerSupplyInputPower.3 (integer) 486
158: powerSupplyInputPower.4 (integer) 471
159: powerSupplyInputPower.5 (integer) 4
160: powerSupplyInputPower.6 (integer) 4
161: powerSupplyInputPower.7 (integer) 488
162: powerSupplyInputPower.8 (integer) 4
163: powerSupplyVoltageOut.1 (octet string) 53.05 [35.33.2E.30.35 (hex)]
164: powerSupplyVoltageOut.2 (octet string) 54.47 [35.34.2E.34.37 (hex)]
165: powerSupplyVoltageOut.3 (octet string) 54.53 [35.34.2E.35.33 (hex)]
166: powerSupplyVoltageOut.4 (octet string) 54.52 [35.34.2E.35.32 (hex)]
167: powerSupplyVoltageOut.5 (octet string) 53.04 [35.33.2E.30.34 (hex)]
168: powerSupplyVoltageOut.6 (octet string) 53.06 [35.33.2E.30.36 (hex)]
169: powerSupplyVoltageOut.7 (octet string) 12.19 [31.32.2E.31.39 (hex)]
170: powerSupplyVoltageOut.8 (octet string) 11.71 [31.31.2E.37.31 (hex)]
171: powerSupplyVoltageIn.1 (octet string) 230 [32.33.30 (hex)]
172: powerSupplyVoltageIn.2 (octet string) 230 [32.33.30 (hex)]
173: powerSupplyVoltageIn.3 (octet string) 234 [32.33.34 (hex)]
174: powerSupplyVoltageIn.4 (octet string) 231 [32.33.31 (hex)]
175: powerSupplyVoltageIn.5 (octet string) 230 [32.33.30 (hex)]
176: powerSupplyVoltageIn.6 (octet string) 230 [32.33.30 (hex)]
177: powerSupplyVoltageIn.7 (octet string) 230 [32.33.30 (hex)]
178: powerSupplyVoltageIn.8 (octet string) 231 [32.33.31 (hex)]
179: powerSupplyWorkMode.1 (integer) backup(2)
180: powerSupplyWorkMode.2 (integer) active(1)
181: powerSupplyWorkMode.3 (integer) active(1)
182: powerSupplyWorkMode.4 (integer) active(1)
183: powerSupplyWorkMode.5 (integer) backup(2)
184: powerSupplyWorkMode.6 (integer) backup(2)
185: powerSupplyWorkMode.7 (integer) active(1)
186: powerSupplyWorkMode.8 (integer) backup(2)
187: powerSupplyGroupIndex.1 (integer) 1
188: powerSupplyGroupIndex.2 (integer) 2
189: powerSupplyEntireStatus.1 (integer) ok(0)
190: powerSupplyEntireStatus.2 (integer) ok(0)
191: settedPowerSupplyEntireMode.1 (integer) activeBackup(2)
192: settedPowerSupplyEntireMode.2 (integer) activeBackup(2)
193: actualPowerSupplyEntireMode.1 (integer) activeBackup(2)
```

```
194: actualPowerSupplyEntireMode.2 (integer) activeBackup(2)
195: settedActivePowerSupply.1 (integer) 1
196: settedActivePowerSupply.2 (integer) 14
***** SNMP QUERY FINISHED *****
```

3.8 powerStatistic

3.8.1 Function

Parent Node

The powerStatistic node contains a total of three scalar objects, including the peak power, peak power occurrence time, and average power.

The OID of the powerStatistic node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).powerStatistic(11)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
peakPower	1.3.6.1.4.1.3902.2601.15.1.11.1	System peak power, unit: W.	DisplayString	read-only
peakPowerOccurTime	1.3.6.1.4.1.3902.2601.15.1.11.2	System peak power occurrence time (UTC).	DisplayString	read-only
averagePower	1.3.6.1.4.1.3902.2601.15.1.11.3	System average power, unit: W.	DisplayString	read-only

3.8.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.8.3 Constraints on Set Operations

The Set operation is not supported.

3.8.4 Example

```
***** SNMP QUERY STARTED *****
1: peakPower.0 (octet string) 0W [30.57 (hex)]
2: peakPowerOccurTime.0 (octet string) 1970-01-01 00:00:00 [31.39.37.30.2D.30.31.2D.30.31.20.
   30.30.3A.30.30.3A.30.30 (hex)]
3: averagePower.0 (octet string) 0W [30.57 (hex)]
***** SNMP QUERY FINISHED *****
```

3.9 PowerManagement

3.9.1 Function

Parent Node

The powerManagement node contains a total of four scalar objects, including the power capping enabling status, capped power, power limitation enabling status, and limited power.
The OID of the powerManagement node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).powerManagment(12)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
powerThreshEnable	1.3.6.1.4.1.3902.2601.15.1.12.1	Power threshold status. ● disable(1) ● enable(2) Default value is disable(1).	Integer	read-write
powerThreshValue	1.3.6.1.4.1.3902.2601.15.1.12.2	Power threshold value. The value is in [5, 32767].	Integer	read-write
powerLimitEnable	1.3.6.1.4.1.3902.2601.15.1.12.4	Power limit status. ● disable(1) ● enable(2) Default value is disable(1).	Integer	read-write
powerLimitValue	1.3.6.1.4.1.3902.2601.15.1.12.5	Power limit value. The value is in [1, 32767].	Integer	read-write

3.9.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.9.3 Constraints on Set Operations

The Set operation is supported.

3.9.4 Example

```
***** SNMP QUERY STARTED *****

1: powerThreshEnable.0 (integer) disable(1)
```

```
2: powerThreshValue.0 (integer) 500
3: powerLimitEnable.0 (integer) disable(1)
4: powerLimitValue.0 (integer) 500
***** SNMP QUERY FINISHED *****
```

3.10 fanProperty

3.10.1 Function

Parent Node

The fanProperty node contains both scalar objects and tabular objects.

- The scalar objects include the fan status, heat dissipation policy (auto and manual), heat dissipation mode set in auto policy, and rotation speed percentage set in manual policy.
- The tabular objects include the fan name, fan presence status, fan health status, rotation speed ratio, current rotation speed, maximum rotation speed, minimum rotation speed, fan serial number, and fan model.

The OID of the fanProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantageo(3902).ssp(2601).VantageoServer(15).VantageoB MC(1).fanProperty(13)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
fanEntireStatus	1.3.6.1.4.1.3902.2601.15.1.13.1	Information about all fantray health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
fanControlPolicy	1.3.6.1.4.1.3902.2601.15.1.13.2	Thermal Policy. ● auto(0) ● manual(1)	Integer	read-write
fanAutoMode	1.3.6.1.4.1.3902.2601.15.1.13.3	Cooling mode used when thermal policy is auto. It cannot be set when thermal policy is manual. ● normalMode(0) ● highPerformanceMode(1) ● lowNoiseMode(2)	Integer	read-write

Object Name	OID	Description	Type	Permission
		• customizedMode(3) • unknown(255)		
fanSpeedLevel	1.3.6.1.4.1.3902.2601.15.1.13.4	Speed percentage when thermal policy is manual. It cannot be set when thermal policy is auto. unknown(255)	Integer	read-write

Tabular Objects

The fanDescriptionEntry node describes the tabular objects in the fanDescriptionTable table. The OID of the fanDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantgaeo(3902).ssp(2601).VantageoServer(15).VantageoB MC(1).fanProperty(13).fanDescriptionTable(50).fanDescriptionEntry(1)

Note

x indicates the serial number of the fan.

Object Name	OID	Description	Type	Permission
fanIndex	1.3.6.1.4.1.3902.2601.15.1.13.50.1.1.x	Information about fantray index.	Integer	read-only
fanName	1.3.6.1.4.1.3902.2601.15.1.13.50.1.2.x	Information about fantray silk print.	DisplayString	read-only
fanPresence	1.3.6.1.4.1.3902.2601.15.1.13.50.1.3.x	Information about fantray presence. • absence(1) • presence(2)	Integer	read-only
fanHealthStatus	1.3.6.1.4.1.3902.2601.15.1.13.50.1.4.x	Information about fantray health status. • ok(0) • minor(2) • major(3) • critical(4) • unknown(255)	Integer	read-only
fanSpeedRatio	1.3.6.1.4.1.3902.2601.15.1.13.50.1.5.x	Information about fantray PWM ratio. unknown(255)	Integer	read-only
fanCurrentSpeed	1.3.6.1.4.1.3902.2601.15.1.13.50.1.6.x	Information about fantray speed.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
fanMaxSpeed	1.3.6.1.4.1.3902.2601.15.1.13.50.1.7.x	Information about maximum fantray speed.	DisplayString	read-only
fanMinSpeed	1.3.6.1.4.1.3902.2601.15.1.13.50.1.8.x	Information about minimum fantray speed.	DisplayString	read-only
fanSerialNumber	1.3.6.1.4.1.3902.2601.15.1.13.50.1.9.x	Information about fantray serial number.	DisplayString	read-only
fanModel	1.3.6.1.4.1.3902.2601.15.1.13.50.1.10.x	Information about fantray model.	DisplayString	read-only

3.10.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.10.3 Constraints on Set Operations

The Set operation is supported.

3.10.4 Example

```
***** SNMP QUERY STARTED *****
1: fanEntireStatus.0 (integer) unknown(255)
2: fanControlPolicy.0 (integer) auto(0)
3: fanAutoMode.0 (integer) normalMode(0)
4: fanSpeedLevel.0 (integer) unknown(255)
5: fanIndex.1 (integer) 1
6: fanIndex.2 (integer) 2
7: fanIndex.3 (integer) 3
8: fanIndex.4 (integer) 4
9: fanIndex.5 (integer) 5
10: fanIndex.6 (integer) 6
11: fanIndex.7 (integer) 7
12: fanIndex.8 (integer) 8
13: fanIndex.9 (integer) 9
14: fanIndex.10 (integer) 10
15: fanIndex.11 (integer) 11
```

```
16: fanIndex.12 (integer) 12
17: fanName.1 (octet string) N/A   [4E.2F.41 (hex)]
18: fanName.2 (octet string) N/A   [4E.2F.41 (hex)]
19: fanName.3 (octet string) N/A   [4E.2F.41 (hex)]
20: fanName.4 (octet string) N/A   [4E.2F.41 (hex)]
21: fanName.5 (octet string) N/A   [4E.2F.41 (hex)]
22: fanName.6 (octet string) N/A   [4E.2F.41 (hex)]
23: fanName.7 (octet string) N/A   [4E.2F.41 (hex)]
24: fanName.8 (octet string) N/A   [4E.2F.41 (hex)]
25: fanName.9 (octet string) N/A   [4E.2F.41 (hex)]
    26: fanName.10 (octet string) N/A [4E.2F.41 (hex)]
    27: fanName.11 (octet string) N/A [4E.2F.41 (hex)]
    28: fanName.12 (octet string) N/A [4E.2F.41 (hex)]
    29: fanPresence.1 (integer) presence(2)
    30: fanPresence.2 (integer) presence(2)
    31: fanPresence.3 (integer) presence(2)
    32: fanPresence.4 (integer) presence(2)
    33: fanPresence.5 (integer) absence(1)
    34: fanPresence.6 (integer) presence(2)
    35: fanPresence.7 (integer) presence(2)
    36: fanPresence.8 (integer) presence(2)
    37: fanPresence.9 (integer) presence(2)
    38: fanPresence.10 (integer) presence(2)
    39: fanPresence.11 (integer) presence(2)
    40: fanPresence.12 (integer) presence(2)
    41: fanHealthStatus.1 (integer) unknown(255)
    42: fanHealthStatus.2 (integer) unknown(255)
    43: fanHealthStatus.3 (integer) unknown(255)
    44: fanHealthStatus.4 (integer) unknown(255)
    45: fanHealthStatus.5 (integer) unknown(255)
    46: fanHealthStatus.6 (integer) unknown(255)
    47: fanHealthStatus.7 (integer) unknown(255)
    48: fanHealthStatus.8 (integer) unknown(255)
    49: fanHealthStatus.9 (integer) unknown(255)
    50: fanHealthStatus.10 (integer) unknown(255)
    51: fanHealthStatus.11 (integer) unknown(255)
    52: fanHealthStatus.12 (integer) unknown(255)
```

```
53: fanSpeedRatio.1 (integer) 0
54: fanSpeedRatio.2 (integer) 0
55: fanSpeedRatio.3 (integer) 0
56: fanSpeedRatio.4 (integer) 0
57: fanSpeedRatio.5 (integer) unknown(255)
58: fanSpeedRatio.6 (integer) 0
59: fanSpeedRatio.7 (integer) 0
60: fanSpeedRatio.8 (integer) 0
61: fanSpeedRatio.9 (integer) 0
62: fanSpeedRatio.10 (integer) 0
63: fanSpeedRatio.11 (integer) 0
64: fanSpeedRatio.12 (integer) 0
65: fanCurrentSpeed.1 (octet string) N/A [4E.2F.41 (hex)]
66: fanCurrentSpeed.2 (octet string) N/A [4E.2F.41 (hex)]
67: fanCurrentSpeed.3 (octet string) N/A [4E.2F.41 (hex)]
68: fanCurrentSpeed.4 (octet string) N/A [4E.2F.41 (hex)]
69: fanCurrentSpeed.5 (octet string) N/A [4E.2F.41 (hex)]
70: fanCurrentSpeed.6 (octet string) N/A [4E.2F.41 (hex)]
71: fanCurrentSpeed.7 (octet string) N/A [4E.2F.41 (hex)]
72: fanCurrentSpeed.8 (octet string) N/A [4E.2F.41 (hex)]
73: fanCurrentSpeed.9 (octet string) N/A [4E.2F.41 (hex)]
74: fanCurrentSpeed.10 (octet string) N/A [4E.2F.41 (hex)]
75: fanCurrentSpeed.11 (octet string) N/A [4E.2F.41 (hex)]
76: fanCurrentSpeed.12 (octet string) N/A [4E.2F.41 (hex)]
77: fanMaxSpeed.1 (octet string) N/A [4E.2F.41 (hex)]
78: fanMaxSpeed.2 (octet string) N/A [4E.2F.41 (hex)]
79: fanMaxSpeed.3 (octet string) N/A [4E.2F.41 (hex)]
80: fanMaxSpeed.4 (octet string) N/A [4E.2F.41 (hex)]
81: fanMaxSpeed.5 (octet string) N/A [4E.2F.41 (hex)]
82: fanMaxSpeed.6 (octet string) N/A [4E.2F.41 (hex)]
83: fanMaxSpeed.7 (octet string) N/A [4E.2F.41 (hex)]
84: fanMaxSpeed.8 (octet string) N/A [4E.2F.41 (hex)]
85: fanMaxSpeed.9 (octet string) N/A [4E.2F.41 (hex)]
86: fanMaxSpeed.10 (octet string) N/A [4E.2F.41 (hex)]
87: fanMaxSpeed.11 (octet string) N/A [4E.2F.41 (hex)]
88: fanMaxSpeed.12 (octet string) N/A [4E.2F.41 (hex)]
89: fanMinSpeed.1 (octet string) N/A [4E.2F.41 (hex)]
```

```
90: fanMinSpeed.2 (octet string) N/A [4E.2F.41 (hex)]
91: fanMinSpeed.3 (octet string) N/A [4E.2F.41 (hex)]
92: fanMinSpeed.4 (octet string) N/A [4E.2F.41 (hex)]
93: fanMinSpeed.5 (octet string) N/A [4E.2F.41 (hex)]
94: fanMinSpeed.6 (octet string) N/A [4E.2F.41 (hex)]
95: fanMinSpeed.7 (octet string) N/A [4E.2F.41 (hex)]
96: fanMinSpeed.8 (octet string) N/A [4E.2F.41 (hex)]
97: fanMinSpeed.9 (octet string) N/A [4E.2F.41 (hex)]
98: fanMinSpeed.10 (octet string) N/A [4E.2F.41 (hex)]
99: fanMinSpeed.11 (octet string) N/A [4E.2F.41 (hex)]
100: fanMinSpeed.12 (octet string) N/A [4E.2F.41 (hex)]
101: fanSerialNumber.1 (octet string) N/A [4E.2F.41 (hex)]
102: fanSerialNumber.2 (octet string) N/A [4E.2F.41 (hex)]
103: fanSerialNumber.3 (octet string) N/A [4E.2F.41 (hex)]
104: fanSerialNumber.4 (octet string) N/A [4E.2F.41 (hex)]
105: fanSerialNumber.5 (octet string) N/A [4E.2F.41 (hex)]
106: fanSerialNumber.6 (octet string) N/A [4E.2F.41 (hex)]
107: fanSerialNumber.7 (octet string) N/A [4E.2F.41 (hex)]
108: fanSerialNumber.8 (octet string) N/A [4E.2F.41 (hex)]
109: fanSerialNumber.9 (octet string) N/A [4E.2F.41 (hex)]
110: fanSerialNumber.10 (octet string) N/A [4E.2F.41 (hex)]
111: fanSerialNumber.11 (octet string) N/A [4E.2F.41 (hex)]
112: fanSerialNumber.12 (octet string) N/A [4E.2F.41 (hex)]
113: fanModel.1 (octet string) N/A [4E.2F.41 (hex)]
114: fanModel.2 (octet string) N/A [4E.2F.41 (hex)]
115: fanModel.3 (octet string) N/A [4E.2F.41 (hex)]
116: fanModel.4 (octet string) N/A [4E.2F.41 (hex)]
117: fanModel.5 (octet string) N/A [4E.2F.41 (hex)]
118: fanModel.6 (octet string) N/A [4E.2F.41 (hex)]
119: fanModel.7 (octet string) N/A [4E.2F.41 (hex)]
120: fanModel.8 (octet string) N/A [4E.2F.41 (hex)]
121: fanModel.9 (octet string) N/A [4E.2F.41 (hex)]
122: fanModel.10 (octet string) N/A [4E.2F.41 (hex)]
123: fanModel.11 (octet string) N/A [4E.2F.41 (hex)]
124: fanModel.12 (octet string) N/A [4E.2F.41 (hex)]
***** SNMP QUERY FINISHED *****
```

3.11 firmwareProperty

3.11.1 Function

Parent Node

The firmwareProperty node contains a firmwareDescriptionTable table, which includes such tabular objects as firmware name, firmware type, firmware version, firmware number, firmware board, and additional firmware information.

The OID of the firmwareProperty node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantageo(3902).ssp(2601).VantageoServer(15).VantageoB MC(1).firmwareProperty(16)

Child Node

Tabular Objects

The firmwareDescriptionEntry node describes the tabular objects in the firmwareDescriptionTable table. The OID of the firmwareDescriptionEntry node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantageo(3902).ssp(2601).VantageoServer(15).VantageoBMC(1).firmwareProperty(16).firmwareDescriptionTable(50).firmwareDescriptionEntry(1)

Note

x indicates the serial number of the firmware device.

Object Name	OID	Description	Type	Permission
firmwareName	1.3.6.1.4.1.3902.2601.15.1.16.50.1.1.x	Name of the firmware.	DisplayString	read-only
firmwareType	1.3.6.1.4.1.3902.2601.15.1.16.50.1.2.x	Version type. ● epld(7) ● bmc(14) ● fru(15) ● boot(20) ● bios(26) ● unknown(255)	Integer	read-only
firmwareVersion	1.3.6.1.4.1.3902.2601.15.1.16.50.1.3.x	Firmware version.	DisplayString	read-only
fruNumber	1.3.6.1.4.1.3902.2601.15.1.16.50.1.4.x	FRU ID.	Integer	read-only

Object Name	OID	Description	Type	Permission
firmwareBoard	1.3.6.1.4.1.3902.2601.15.1.16.50.1.5.x	Firmware location.	DisplayString	read-only
firmwareExtraInfo	1.3.6.1.4.1.3902.2601.15.1.16.50.1.6.x	Reserved.	DisplayString	read-only

3.11.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.11.3 Constraints on Set Operations

The Set operation is not supported.

3.11.4 Example

```
***** SNMP QUERY STARTED *****
1: firmwareName.0.4.66.79.79.84 (octet string) BOOT [42.4F.4F.54 (hex)]
2: firmwareName.0.9.83.108.97.118.101.32.66.77.67 (octet string) Slave BMC [53.6C.61.76.65.
   20.42.4D.43 (hex)]
3: firmwareName.0.10.77.97.115.116.101.114.32.66.77.67 (octet string) Master BMC [4D.61.73.
   74.65.72.20.42.4D.43 (hex)]
4: firmwareName.0.10.83.108.97.118.101.32.66.73.79.83 (octet string) Slave BIOS [53.6C.61.76.
   65.20.42.49.4F.53 (hex)]
5: firmwareName.0.11.77.97.115.116.101.114.32.66.73.79.83 (octet string) Master BIOS [4D.61.
   73.74.65.72.20.42.49.4F.53 (hex)]
6: firmwareName.0.13.77.97.105.110.98.111.97.114.100.32.70.82.85 (octet string) Mainboard FRU
   [4D.61.69.6E.62.6F.61.72.64.20.46.52.55 (hex)]
7: firmwareName.0.14.77.97.105.110.98.111.97.114.100.32.69.80.76.68 (octet string) Mainboard
   EPLD [4D.61.69.6E.62.6F.61.72.64.20.45.50.4C.44 (hex)]
8: firmwareName.2.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) SubCard FRU [53.75.
   62.43.61.72.64.20.46.52.55 (hex)]
9: firmwareName.2.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) SubCard EPLD [53.
   75.62.43.61.72.64.20.45.50.4C.44 (hex)]
10: firmwareName.3.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) SubCard FRU [53.75.
    62.43.61.72.64.20.46.52.55 (hex)]
11: firmwareName.3.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) SubCard EPLD [53.
    75.62.43.61.72.64.20.45.50.4C.44 (hex)]
```

```
12: firmwareName.6.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) SubCard FRU [53.75.
    62.43.61.72.64.20.46.52.55 (hex)]
13: firmwareName.6.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) SubCard EPLD
    [53.75.62.43.61.72.64.20.45.50.4C.44 (hex)]
14: firmwareType.0.4.66.79.79.84 (integer) boot(20)
15: firmwareType.0.9.83.108.97.118.101.32.66.77.67 (integer) bmc(14)
16: firmwareType.0.10.77.97.115.116.101.114.32.66.77.67 (integer) bmc(14)
17: firmwareType.0.10.83.108.97.118.101.32.66.73.79.83 (integer) bios(26)
18: firmwareType.0.11.77.97.115.116.101.114.32.66.73.79.83 (integer) bios(26)
19: firmwareType.0.13.77.97.105.110.98.111.97.114.100.32.70.82.85 (integer) fru(15)
20: firmwareType.0.14.77.97.105.110.98.111.97.114.100.32.69.80.76.68 (integer) epld(7)
21: firmwareType.2.11.83.117.98.67.97.114.100.32.70.82.85 (integer) fru(15)
22: firmwareType.2.12.83.117.98.67.97.114.100.32.69.80.76.68 (integer) epld(7)
23: firmwareType.3.11.83.117.98.67.97.114.100.32.70.82.85 (integer) fru(15)
24: firmwareType.3.12.83.117.98.67.97.114.100.32.69.80.76.68 (integer) epld(7)
25: firmwareType.6.11.83.117.98.67.97.114.100.32.70.82.85 (integer) fru(15)
26: firmwareType.6.12.83.117.98.67.97.114.100.32.69.80.76.68 (integer) epld(7)
27: firmwareVersion.0.4.66.79.79.84 (octet string) 04.22.02.01 [30.34.2E.32.32.2E.30.32.2E.
    30.31 (hex)]
28: firmwareVersion.0.9.83.108.97.118.101.32.66.77.67 (octet string) N/A [4E.2F.41 (hex)]
29: firmwareVersion.0.10.77.97.115.116.101.114.32.66.77.67 (octet string) 04.22.02.01
    [30.34.2E.32.32.2E.30.32.2E.30.31 (hex)]
30: firmwareVersion.0.10.83.108.97.118.101.32.66.73.79.83 (octet string) N/A [4E.2F.41 (hex)]
31: firmwareVersion.0.11.77.97.115.116.101.114.32.66.73.79.83 (octet string) N/A [4E.2F.41
    (hex)]
32: firmwareVersion.0.13.77.97.105.110.98.111.97.114.100.32.70.82.85 (octet string)
    01.03.0004 [30.31.2E.30.33.2E.30.30.30.34 (hex)]
33: firmwareVersion.0.14.77.97.105.110.98.111.97.114.100.32.69.80.76.68 (octet string)
    00.00.00.101 [30.30.2E.30.30.2E.30.30.2E.31.30.31 (hex)]
34: firmwareVersion.2.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) 01.03.0001
    [30.31.2E.30.33.2E.30.30.30.31 (hex)]
35: firmwareVersion.2.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) N/A [4E.2F.41
    (hex)]
36: firmwareVersion.3.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) N/A [4E.2F.41
    (hex)]
37: firmwareVersion.3.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) N/A [4E.2F.41
    (hex)]
```

```
38: firmwareVersion.6.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) 01.03.0001 [30.
    31.2E.30.33.2E.30.30.30.31 (hex)]
39: firmwareVersion.6.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) N/A [4E.2F.41
    (hex)]
40: fruNumber.0.4.66.79.79.84 (integer) 0
41: fruNumber.0.9.83.108.97.118.101.32.66.77.67 (integer) 0
42: fruNumber.0.10.77.97.115.116.101.114.32.66.77.67 (integer) 0
43: fruNumber.0.10.83.108.97.118.101.32.66.73.79.83 (integer) 0
44: fruNumber.0.11.77.97.115.116.101.114.32.66.73.79.83 (integer) 0
45: fruNumber.0.13.77.97.105.110.98.111.97.114.100.32.70.82.85 (integer) 0
46:  fruNumber.0.14.77.97.105.110.98.111.97.114.100.32.69.80.76.68  (integer)  0
47: fruNumber.2.11.83.117.98.67.97.114.100.32.70.82.85 (integer) 2
48: fruNumber.2.12.83.117.98.67.97.114.100.32.69.80.76.68 (integer) 2
49: fruNumber.3.11.83.117.98.67.97.114.100.32.70.82.85 (integer) 3
50: fruNumber.3.12.83.117.98.67.97.114.100.32.69.80.76.68 (integer) 3
51: fruNumber.6.11.83.117.98.67.97.114.100.32.70.82.85 (integer) 6
52: fruNumber.6.12.83.117.98.67.97.114.100.32.69.80.76.68 (integer) 6
53: firmwareBoard.0.4.66.79.79.84 (octet string) 2240-RE [52.35.58.47.35.5F.4D.42 (hex)]
54: firmwareBoard.0.9.83.108.97.118.101.32.66.77.67 (octet string) 2240-RE [52.35.58.47.35.
    5F.4D.42 (hex)]
55: firmwareBoard.0.10.77.97.115.116.101.114.32.66.77.67 (octet string) 2240-RE [52.35.58.
    47.35.5F.4D.42 (hex)]
56: firmwareBoard.0.10.83.108.97.118.101.32.66.73.79.83 (octet string) 2240-RE [52.35.58.47.
    35.5F.4D.42 (hex)]
57: firmwareBoard.0.11.77.97.115.116.101.114.32.66.73.79.83 (octet string) 2240-RE [52.35.58.
    47.35.5F.4D.42 (hex)]
58: firmwareBoard.0.13.77.97.105.110.98.111.97.114.100.32.70.82.85 (octet string) 2240-RE
    [52.35.58.47.35.5F.4D.42 (hex)]
59: firmwareBoard.0.14.77.97.105.110.98.111.97.114.100.32.69.80.76.68 (octet string) 2240-RE
    [52.35.58.47.35.5F.4D.42 (hex)]
60: firmwareBoard.2.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) 2240-RE [53.57.
    50.36.35.47.35.30.41 (hex)]
61: firmwareBoard.2.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) 2240-RE [53.
    57.50.36.35.47.35.30.41 (hex)]
62: firmwareBoard.3.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) SUB CARD [53.55.42.
    20.43.41.52.44 (hex)]
63: firmwareBoard.3.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) SUB CARD [53.
```

```
    55.42.20.43.41.52.44 (hex)]
64: firmwareBoard.6.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) N/A [53.42.46.
    32.35.4D (hex)]
65: firmwareBoard.6.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) N/A [53.42.
    46.32.35.4D (hex)]
66: firmwareExtraInfo.0.4.66.79.79.84 (octet string) N/A [4E.2F.41 (hex)]
67: firmwareExtraInfo.0.9.83.108.97.118.101.32.66.77.67 (octet string) N/A [4E.2F.41 (hex)]
68: firmwareExtraInfo.0.10.77.97.115.116.101.114.32.66.77.67 (octet string) N/A [4E.2F.41
    (hex)]
69: firmwareExtraInfo.0.10.83.108.97.118.101.32.66.73.79.83 (octet string) N/A [4E.2F.41
    (hex)]
70: firmwareExtraInfo.0.11.77.97.115.116.101.114.32.66.73.79.83 (octet string) N/A 4E.2F.41
    (hex)]
71: firmwareExtraInfo.0.13.77.97.105.110.98.111.97.114.100.32.70.82.85 (octet string) N/A
    [4E.2F.41 (hex)]
72: firmwareExtraInfo.0.14.77.97.105.110.98.111.97.114.100.32.69.80.76.68 (octet string) N/A
    [4E.2F.41 (hex)]
73: firmwareExtraInfo.2.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) N/A
    [4E.2F.41 (hex)]
74: firmwareExtraInfo.2.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) N/A [4E.2F.
    41 (hex)]
75: firmwareExtraInfo.3.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) N/A [4E.2F.41
    (hex)]
76: firmwareExtraInfo.3.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) N/A [4E.2F.
    41 (hex)]
77: firmwareExtraInfo.6.11.83.117.98.67.97.114.100.32.70.82.85 (octet string) N/A [4E.2F.41
    (hex)]
78: firmwareExtraInfo.6.12.83.117.98.67.97.114.100.32.69.80.76.68 (octet string) N/A [4E.2F.
    41 (hex)]
***** SNMP QUERY FINISHED *****
```

3.12 networkProperty

3.12.1 Function

Parent Node

The networkProperty node contains both scalar objects and tabular objects.

- The scalar objects include the network mode, VLAN ID, and VLAN priority.

- The tabular objects include the Ethernet port number, MAC address, network protocol, IPv4 source, IPv4 address, IPv4 mask, default IPv4 gateway, IPv6 source, IPv6 address, IPv6 mask, default IPv6 gateway, and IPv6 link-local address.

Note

In automatic or fixed mode, there is only one network port. In independent mode, there are two network ports.

The OID of the networkProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantageo(3902).ssp(2601).VantageoServer(15).VantageoB MC(1).networkProperty(17)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
networkMode	1.3.6.1.4.1.3902.2601.15.1.17.1	Information about network mode. ● auto(0) ● fixed(1) ● independent(2)	Integer	read-only
NCSIVlanID	1.3.6.1.4.1.3902.2601.15.1.17.11	NCSI VLAN ID.	Integer	read-only
NCSIVlanPriority	1.3.6.1.4.1.3902.2601.15.1.17.12	NCSI VLAN priority.	Integer	read-only
iSACVlanID	1.3.6.1.4.1.3902.2601.15.1.17.13	iSAC VLAN ID.	Integer	read-only
iSACVlanPriority	1.3.6.1.4.1.3902.2601.15.1.17.14	iSAC VLAN Priority.	Integer	read-only

Tabular Objects

The networkDescriptionEntry node describes the tabular objects in the networkDescriptionTable table. The OID of the networkDescriptionEntry node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantageo(3902).ssp(2601).VantageoServer(15).VantageoBMC(1).networkProperty(17).networkDescriptionTable(50).networkDescriptionEntry(1)

Note

x indicates the serial number of the network device.

Object Name	OID	Description	Type	Permission
ethIndex	1.3.6.1.4.1.3902.2601.15.1.17.50.1.1.x	Ethernet port number.	Integer	read-only
ethMACAddress	1.3.6.1.4.1.3902.2601.15.1.17.50.1.2.x	MAC address.	DisplayString	read-only
ethNetworkProtocol	1.3.6.1.4.1.3902.2601.15.1.17.50.1.3.x	Network protocol.	Integer	read-only
ethIPv4Source	1.3.6.1.4.1.3902.2601.15.1.17.50.1.4.x	IPv4 source. ● static(1) ● dhcp(2)	Integer	read-only
ethIPv4Address	1.3.6.1.4.1.3902.2601.15.1.17.50.1.5.x	IPv4 address.	DisplayString	read-only
ethIPv4Netmask	1.3.6.1.4.1.3902.2601.15.1.17.50.1.6.x	IPv4 netmask.	DisplayString	read-only
ethIPv4DefaultGateway	1.3.6.1.4.1.3902.2601.15.1.17.50.1.7.x	Default IPv4 gateway.	DisplayString	read-only
ethIPv6Source	1.3.6.1.4.1.3902.2601.15.1.17.50.1.8.x	IPv6 source. ● static(1) ● dhcp(2)	Integer	read-only
ethIPv6Address	1.3.6.1.4.1.3902.2601.15.1.17.50.1.9.x	IPv6 address.	DisplayString	read-only
ethIPv6Prefix	1.3.6.1.4.1.3902.2601.15.1.17.50.1.10.x	IPv6 prefix length.	Integer	read-only
ethIPv6DefaultGateway	1.3.6.1.4.1.3902.2601.15.1.17.50.1.11.x	Default IPv6 gateway.	DisplayString	read-only
ethIPv6LinkLocalAddress	1.3.6.1.4.1.3902.2601.15.1.17.50.1.12.x	IPv6 link-local address.	DisplayString	read-only

3.12.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.12.3 Constraints on Set Operations

The Set operation is not supported.

3.12.4 Example

```
***** SNMP QUERY STARTED *****
1: networkMode.0 (integer) independent(2)
2: NCSIVlanID.0 (integer) 0
3: NCSIVlanPriority.0 (integer) 0
4: iSACVlanID.0 (integer) 0
5: iSACVlanPriority.0 (integer) 0
6: ethIndex.1 (integer) 1
7: ethIndex.2 (integer) 2
8: ethMACAddress.1 (octet string) 0E:68:FA:AB:D2:C0 [30.45.3A.36.38.3A.46.41.3A.41.42.3A.44.
   32.3A.43.30 (hex)]
9: ethMACAddress.2 (octet string) 0E:68:FA:AB:D2:C1 [30.45.3A.36.38.3A.46.41.3A.41.42.3A.44.
   32.3A.43.31 (hex)]
10: ethNetworkProtocal.1 (integer) ipv4andipv6(3)
11: ethNetworkProtocal.2 (integer) ipv4andipv6(3)
12: ethIPv4Source.1 (integer) static(1)
13: ethIPv4Source.2 (integer) static(1)
14: ethIPv4Address.1 (octet string) 192.168.5.7 [31.39.32.2E.31.36.38.2E.35.2E.37 (hex)]
15: ethIPv4Address.2 (octet string) 192.168.114.7 [31.39.32.2E.31.36.38.2E.31.31.34.2E.37
    (hex)]
16: ethIPv4Netmask.1 (octet string) 255.255.255.0 [32.35.35.2E.32.35.35.2E.32.35.35.2E.30
    (hex)]
17: ethIPv4Netmask.2 (octet string) 255.255.255.0 [32.35.35.2E.32.35.35.2E.32.35.35.2E.30
    (hex)]
18: ethIPv4DefaultGateway.1 (octet string) 0.0.0.0 [30.2E.30.2E.30.2E.30 (hex)]
19: ethIPv4DefaultGateway.2 (octet string) 0.0.0.0 [30.2E.30.2E.30.2E.30 (hex)]
20: ethIPv6Source.1 (integer) static(1)
21: ethIPv6Source.2 (integer) static(1)
22: ethIPv6Address.1 (octet string) 2023::4 [32.30.32.33.3A.3A.34 (hex)]
23: ethIPv6Address.2 (octet string) 2003::5 [32.30.30.33.3A.3A.35 (hex)]
24: ethIPv6Prefix.1 (integer) 64
```

```
25: ethIPv6Prefix.2 (integer) 64
26: ethIPv6DefaultGateway.1 (octet string) 2023:: [32.30.32.33.3A.3A (hex)]
27: ethIPv6DefaultGateway.2 (octet string) 2003:: [32.30.30.33.3A.3A (hex)]
28: ethIPv6LinkLocalAddress.1 (octet string) fe80::c68:faff:feab:d2c0 [66.65.38.30.3A.3A.63.
    36.38.3A.66.61.66.66.3A.66.65.61.62.3A.64.32.63.30  (hex)]
29: ethIPv6LinkLocalAddress.2 (octet string) fe80::c68:faff:feab:d2c1 [66.65.38.30.3A.3A.63.
    36.38.3A.66.61.66.66.3A.66.65.61.62.3A.64.32.63.31  (hex)]
***** SNMP QUERY FINISHED *****
```

3.13 sensorProperty

3.13.1 Function

Parent Node

The sensorProperty node contains a sensorDescriptionTable table, which includes such tabular objects as sensor name, reading status, upper critical threshold, upper major threshold, upper minor threshold, lower critical threshold, lower major threshold, lower minor threshold, sensor status, sensor type, positive hysteresis, negative hysteresis, positive hysteresis string, negative hysteresis string, sensor unit, and sensor event reading type.
The OID of the sensorProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantageo(3902).ssp(2601).VantageoServer(15).VantageoB MC(1).sensorProperty(18)

Child Node

Tabular Objects

The sensorDescriptionEntry node describes the tabular objects in the sensorDescriptionTable table. The OID of the sensorDescriptionEntry node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).Vantageo(3902).ssp(2601).VantageoServer(15).VantageoBMC(1).sensorProperty(18).sensorDescriptionTable(50).sensorDescriptionEntry(1)

Object Name	OID	Description	Type	Permission
sensorNumber	1.3.6.1.4.1.3902.2601.15.1.18.50.1.1.x	Information about sensor number.	Integer	read-only
sensorName	1.3.6.1.4.1.3902.2601.15.1.18.50.1.2.x	Information about sensor name.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
sensorReading	1.3.6.1.4.1.3902.2601.15.1.18.50.1.3.x	Sensor current reading.	DisplayString	read-only
sensorUpperNonRecoverable	1.3.6.1.4.1.3902.2601.15.1.18.50.1.4.x	Information about sensor upper nonrecoverable threshold.	DisplayString	read-only
sensorUpperCritical	1.3.6.1.4.1.3902.2601.15.1.18.50.1.5.x	Information about sensor upper crtical threshold.	DisplayString	read-only
sensorUpperMinor	1.3.6.1.4.1.3902.2601.15.1.18.50.1.6.x	Information about sensor upper minor threshold.	DisplayString	read-only
sensorLowerNonRecoverable	1.3.6.1.4.1.3902.2601.15.1.18.50.1.7.x	Information about sensor lower nonrecoverable threshold.	DisplayString	read-only
sensorLowerCritical	1.3.6.1.4.1.3902.2601.15.1.18.50.1.8.x	Information about sensor lower crtical threshold.	DisplayString	read-only
sensorLowerMinor	1.3.6.1.4.1.3902.2601.15.1.18.50.1.9.x	Information about sensor lower minor threshold.	DisplayString	read-only
sensorStatus	1.3.6.1.4.1.3902.2601.15.1.18.50.1.10.x	Information about sensor status.	DisplayString	read-only
sensorType	1.3.6.1.4.1.3902.2601.15.1.18.50.1.11.x	Information about sensor type. ● temperature(1) ● voltage(2) ● current(3) ● fan(4) ● physicalSecurity(5) ● platSecurityViolationAttempt(6) ● processor(7) ● powerSupply(8) ● powerUnit(9) ● coolingDevice(10) ● otherUnitsBasedSensor(11) ● memory(12) ● driverSlot(13) ● postMemoryResize(14)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• systemFirmwareProgress(15) • eventLoggingDisabled(16) • watchdog1(17) • systemEvent(18) • criticalInterrupt(19) • buttonSwitch(20) • moduleBoard(21) • microcontrollerCoprocessor(22) • subCard(23) • chassis(24) • chipSet(25) • otherFru(26) • cableInterconnect(27) • terminator(28) • systemBootInitiated(29) • bootError(30) • osBoot(31) • osCriticalStop(32) • slotConnector(33) • systemAcpiPowerState(34) • watchdog2(35) • platformAlert(36) • entityPresence(37) • monitorAsicIc(38) • lan(39) • managementSubsys-temHealth(40) • battery(41) • sessionAudit(42) • versionChange(43) • fruState(44) • smiTimeout(192) • selfTest(193) • hostEvent(194) • biosStartup(195) • sensorSelfEvent(196) • pemVoltageFalling(197) • boardPoweronFailure(198) • hotSwapState(240) • ipmbLinkStatus(241)		

Object Name	OID	Description	Type	Permission
sensorPositive-Hysteresis	1.3.6.1.4.1.3902.2601.15.1.18.50.1.12.x	Positive-going threshold hysteresis value. Set to 00h if sensor does not support positive-going threshold hysteresis.	Integer	read-only
sensorNegative-Hysteresis	1.3.6.1.4.1.3902.2601.15.1.18.50.1.13.x	Negative-going threshold hysteresis value. Set to 00h if sensor does not support negative-going threshold hysteresis.	Integer	read-only
sensorPositive-HysteresisString	1.3.6.1.4.1.3902.2601.15.1.18.50.1.14.x	Positive-going threshold hysteresis value. Set to 'na' if sensor does not support positive-going threshold hysteresis.	DisplayString	read-only
sensorNegative-HysteresisString	1.3.6.1.4.1.3902.2601.15.1.18.50.1.15.x	Negative-going threshold hysteresis value. Set to 'na' if sensor does not support negative-going threshold hysteresis.	DisplayString	read-only
sensorUnit	1.3.6.1.4.1.3902.2601.15.1.18.50.1.16.x	Information about sensor unit. ● unspecified(0) ● degreesC(1) ● degreesF(2) ● degreesK(3) ● volts(4) ● amps(5) ● watts(6) ● joules(7) ● coulombs(8) ● va(9) ● nits(10) ● lumen(11) ● lux(12) ● candela(13) ● kPa(14) ● psi(15) ● newton(16) ● cfm(17) ● rpm(18) ● hz(19) ● microsecond(20) ● millisecond(21) ● second(22) ● minute(23)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• hour(24) • day(25) • week(26) • mil(27) • inches(28) • feet(29) • cuIn(30) • cuFeet(31) • mm(32) • cm(33) • m(34) • cuCm(35) • cuM(36) • liters(37) • fluidOunce(38) • radians(39) • steradians(40) • revolutions(41) • cycles(42) • gravities(43) • ounce(44) • pound(45) • ftlb(46) • ozIn(47) • gauss(48) • gilberts(49) • henry(50) • millihenry(51) • farad(52) • microfarad(53) • ohms(54) • siemens(55) • mole(56) • becquerel(57) • ppm(58) • reserved(59) • decibels(60) • dbA(61) • dbC(62) • gray(63) • sievert(64) • colortempdegK(65) • bit(66)		

Object Name	OID	Description	Type	Permission
		• kilobit(67) • megabit(68) • gigabit(69) • byte(70) • kilobyte(71) • megabyte(72) • gigabyte(73) • word(74) • dword(75) • qword(76) • line(77) • hit(78) • miss(79) • retry(80) • reset(81) • overrunOverflow(82) • underrun(83) • collision(84) • packets(85) • messages(86) • characters(87) • error(88) • correctableError(89) • uncorrectableError(90)		
sensorEven-tReadingType	1.3.6.1.4.1.3902.2601.15.1.18.50.1.17.x	Information about event reading type. • unspecified(0) • threshold(1) • genericDiscrite1(2) • genericDiscrite2(3) • genericDiscrite3(4) • genericDiscrite4(5) • genericDiscrite5(6) • genericDiscrite6(7) • genericDiscrite7(8) • genericDiscrite8(9) • genericDiscrite9(10) • genericDiscrite10(11) • genericDiscrite11(12) • sensorSpecific(111) • oem1(112) • oem2(113)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• oem3(114) • oem4(115) • oem5(116) • oem6(117) • oem7(118) • oem8(119) • oem9(120) • oem10(121) • oem11(122) • oem12(123) • oem13(124) • oem14(125) • oem15(126) • oem16(127)		

3.13.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.13.3 Constraints on Set Operations

The Set operation is not supported.

3.13.4 Example

```
***** SNMP QUERY STARTED *****
1: sensorNumber.1 (integer) 1
2: sensorName.1 (octet string) CPU_PROCHOT_01 [43.50.55.5F.50.52.4F.43.48.4F.54.5F.30.31
    (hex)]
3: sensorReading.1 (octet string) Reading/state unavailable [52.65.61.64.69.6E.67.2F.73.74.
    61.74.65.20.75.6E.61.76.61.69.6C.61.62.6C.65  (hex)]
4: sensorUpperNonRecoverable.1 (octet string) -- [2D.2D (hex)]
5: sensorUpperCritical.1 (octet string) -- [2D.2D (hex)]
6: sensorUpperMinor.1 (octet string) -- [2D.2D (hex)]
7: sensorLowerNonRecoverable.1 (octet string) -- [2D.2D (hex)]
8: sensorLowerCritical.1 (octet string) -- [2D.2D (hex)]
9: sensorLowerMinor.1 (octet string) -- [2D.2D (hex)]
10: sensorStatus.1 (octet string) OK [4F.4B (hex)]
11: sensorType.1 (integer) processor(7)
12: sensorPositiveHysteresis.1 (integer) 3
13: sensorNegativeHysteresis.1 (integer) 3
```

```
14: sensorPositiveHysteresisString.1 (octet string) NA [4E.41 (hex)]
15: sensorNegativeHysteresisString.1 (octet string) NA [4E.41 (hex)]
16: sensorUnit.1 (integer) unspecified(0)
17: sensorEventReadingType.1 (integer) threshold(1)
***** SNMP QUERY FINISHED *****
```

3.14 cpuProperty

3.14.1 Function

Parent Node

The cpuProperty node contains both scalar objects and tabular objects.

- The scalar objects include the entire CPU health status, maximum number of CPUs supported, and number of present CPUs.
- The tabular objects in the cpuDescriptionTable table include the index, location, device name, enabling status, health status, manufacturer, processor type, model, serial number, TDP, external clock rate, CPU clock rate, maximum clock rate, processor ID, number of cores, number of enabled cores, number of threads, number of enabled threads, CPU L1 cache, CPU L2 cache, CPU L3 cache, part number, architecture, instruction set, and enhanced instruction set.
- The tabular objects in the cpuPresenceTable table include the slot number and presence status.

The OID of the cpuProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).cpuProperty(21)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
cpuEntireStatus	1.3.6.1.4.1.3902.2601.15.1.21.1	Entire CPU health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
cpuMaxSupportNum	1.3.6.1.4.1.3902.2601.15.1.21.2	Maximum number of CPUs supported on the board. unknown(255)	Integer	read-only

Object Name	OID	Description	Type	Permission
cpuTotalPresent-Num	1.3.6.1.4.1.3902.2601.15.1.21.3	Number of present CPUs on the board.	Integer	read-only

Tabular Objects

The cpuDescriptionEntry node describes the tabular objects in the cpuDescriptionTable table. The OID of the cpuDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).cpuProperty(21).cpuDescriptionTable(50).cpuDescriptionEntry(1)

Note

x indicates the serial number of the CPU.

Object Name	OID	Description	Type	Permission
cpuIndex	1.3.6.1.4.1.3902.2601.15.1.21.50.1.1.x	Information about CPU index.	Integer	read-only
cpuLocation	1.3.6.1.4.1.3902.2601.15.1.21.50.1.2.x	Information about CPU location.	Integer	read-only
cpuDeviceName	1.3.6.1.4.1.3902.2601.15.1.21.50.1.3.x	Information about CPU name.	DisplayString	read-only
cpuAvailabilityS-tatus	1.3.6.1.4.1.3902.2601.15.1.21.50.1.4.x	Information about CPU enabling status ● unknown(1) ● disabled(2) ● backup(3) ● active(4)	Integer	read-only
cpuHealthStatus	1.3.6.1.4.1.3902.2601.15.1.21.50.1.5.x	CPU health status ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
cpuManufacturer	1.3.6.1.4.1.3902.2601.15.1.21.50.1.6.x	Information about CPU manufactur-er.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
cpuModel	1.3.6.1.4.1.3902.2601.15.1.21.50.1.7.x	Information about CPU model type.	DisplayString	read-only
cpuType	1.3.6.1.4.1.3902.2601.15.1.21.50.1.8.x	Information about CPU type.	DisplayString	read-only
cpuSerialNumber	1.3.6.1.4.1.3902.2601.15.1.21.50.1.9.x	Information about CPU serial number.	DisplayString	read-only
cpuTdp	1.3.6.1.4.1.3902.2601.15.1.21.50.1.10.x	Information about CPUTDP number (unit: W).	Integer	read-only
cpuExternalClock	1.3.6.1.4.1.3902.2601.15.1.21.50.1.11.x	Information about CPU external clock.	Integer	read-only
cpuClockRate	1.3.6.1.4.1.3902.2601.15.1.21.50.1.12.x	Information about CPU clock rate (unit: MHz).	Integer	read-only
cpuMaxClockRate	1.3.6.1.4.1.3902.2601.15.1.21.50.1.13.x	Information about CPU max clock rate (unit: MHz).	Integer	read-only
cpuProcessorID	1.3.6.1.4.1.3902.2601.15.1.21.50.1.14.x	Information about CPU processor ID.	DisplayString	read-only
cpuCoreCount	1.3.6.1.4.1.3902.2601.15.1.21.50.1.15.x	Information about total number of CPU cores.	Integer	read-only
cpuEnabledCoreCount	1.3.6.1.4.1.3902.2601.15.1.21.50.1.16.x	Information about number of enabled CPU cores.	Integer	read-only
cpuThreadCount	1.3.6.1.4.1.3902.2601.15.1.21.50.1.17.x	Information about number of CPU threads.	Integer	read-only
cpuEnabledThreadCount	1.3.6.1.4.1.3902.2601.15.1.21.50.1.18.x	Information about number of enabled CPU threads.	Integer	read-only

Object Name	OID	Description	Type	Permission
cpuL1CacheInKB	1.3.6.1.4.1.3902.2601.15.1.21.50.1.19.x	Information about CPU L1 cache (unit: KB).	Integer	read-only
cpuL2CacheInKB	1.3.6.1.4.1.3902.2601.15.1.21.50.1.20.x	Information about CPU L2 cache (unit: KB).	Integer	read-only
cpuL3CacheInKB	1.3.6.1.4.1.3902.2601.15.1.21.50.1.21.x	Information about CPU L3 cache (unit: KB). unknown(0)	Integer	read-only
cpuPartNumber	1.3.6.1.4.1.3902.2601.15.1.21.50.1.22.x	Information about CPU part number.	DisplayString	read-only
cpuArchitecture	1.3.6.1.4.1.3902.2601.15.1.21.50.1.23.x	Information about CPU architecture.	DisplayString	read-only
cpuInstructionSet	1.3.6.1.4.1.3902.2601.15.1.21.50.1.24.x	Information about CPU instruction-set.	DisplayString	read-only
cpuInstructionSetExtensions	1.3.6.1.4.1.3902.2601.15.1.21.50.1.25.x	Information about CPU instruction-set extensions.	DisplayString	read-only

The cpuPresenceEntry node describes the tabular objects in the cpuPresenceTable table. The OID of the cpuPresenceEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).cpuProperty(21).cpuPresenceTable(51).cpuPresenceEntry(1)

Note

x indicates the serial number of the CPU.

Object Name	OID	Description	Type	Permission
cpuLocationSlot	1.3.6.1.4.1.3902.2601.15.1.21.51.1.1.x	CPU location slot.	Integer	read-only
cpuPresenceStatus	1.3.6.1.4.1.3902.2601.15.1.21.51.1.2.x	CPU presence status. • absence(1) • presence(2) • unknown(255)	Integer	read-only

3.14.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.14.3 Constraints on Set Operations

The Set operation is not supported.

3.14.4 Example

```
***** SNMP QUERY STARTED *****
1: cpuEntireStatus.0 (integer) ok(0)
2: cpuMaxSupportNum.0 (integer) 2
3: cpuTotalPresentNum.0 (integer) 0
4: cpuLocationSlot.1 (integer) 1
5: cpuLocationSlot.2 (integer) 2
6: cpuPresenceStatus.1 (integer) absence(1)
7: cpuPresenceStatus.2 (integer) absence(1)
***** SNMP QUERY FINISHED *****
```

3.15 memoryProperty

3.15.1 Function

Parent Node

The memoryProperty node contains both scalar objects and tabular objects.

- The scalar objects include the entire memory health status, maximum number of memory modules supported on the server, and number of present memory modules.
- The tabular objects in the memoryDescriptionTable table include the index, silkscreen ID, location, device name, home memory controller ID, home channel ID, home DIMM ID, bank location, enabling status, health status, capacity, manufacturer, serial number, part number, asset tag, DDR type, form factor, DIMM type, number of ranks, ECC type, memory frequency, configured frequency, data bandwidth, total bandwidth, minimum voltage, maximum voltage, and configured voltage.
- The tabular objects in the memoryPresenceTable table include the slot number and presence status.

The OID of the memoryProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).memoryProperty(22)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
memoryEntireStatus	1.3.6.1.4.1.3902.2601.15.1.22.1	Entire memory health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
memoryMaxSupportNum	1.3.6.1.4.1.3902.2601.15.1.22.2	Information about max memory number on the board. unknown(255)	Integer	read-only
memoryTotalPresentNum	1.3.6.1.4.1.3902.2601.15.1.22.3	Information about present memory number on the board.	Integer	read-only

Tabular Objects

The memoryDescriptionEntry node describes the tabular objects in the memoryDescriptionTable table. The OID of the memoryDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).memoryProperty(22).memoryDescriptionTable(50).memoryDescriptionEntry(1)

Note

x indicates the serial number of the memory.

Object Name	OID	Description	Type	Permission
memoryIndex	1.3.6.1.4.1.3902.2601.15.1.22.50.1.1.x	Information about memory index number.	Integer	read-only
memoryDimmNumber	1.3.6.1.4.1.3902.2601.15.1.22.50.1.2.x	Information about memory silk number.	Integer	read-only
memoryLocation	1.3.6.1.4.1.3902.2601.15.1.22.50.1.3.x	Information about memory silk type.	DisplayString	read-only
memoryCpuDeviceName	1.3.6.1.4.1.3902.2601.15.1.22.50.1.4.x	Information about home memory CPU.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
memoryController	1.3.6.1.4.1.3902.2601.15.1.22.50.1.5.x	Information about memory controller.	Integer	read-only
memoryChannel	1.3.6.1.4.1.3902.2601.15.1.22.50.1.6.x	Information about memory channel.	Integer	read-only
memoryDimm	1.3.6.1.4.1.3902.2601.15.1.22.50.1.7.x	Information about memory DIMM.	Integer	read-only
memoryBank	1.3.6.1.4.1.3902.2601.15.1.22.50.1.8.x	Information about memory bank.	DisplayString	read-only
memoryAvailabilityStatus	1.3.6.1.4.1.3902.2601.15.1.22.50.1.9.x	Information about memory enabling status. ● unknown(1) ● disabled(2) ● backup(3) ● active(4)	Integer	read-only
memoryHealthStatus	1.3.6.1.4.1.3902.2601.15.1.22.50.1.10.x	Memory health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
memorySizeInGB	1.3.6.1.4.1.3902.2601.15.1.22.50.1.11.x	Information about memory capacity.	Integer	read-only
memoryManufacturer	1.3.6.1.4.1.3902.2601.15.1.22.50.1.12.x	Information about memory manufacturer.	DisplayString	read-only
memorySerialNumber	1.3.6.1.4.1.3902.2601.15.1.22.50.1.13.x	Information about memory serial number.	DisplayString	read-only
memoryPartNumber	1.3.6.1.4.1.3902.2601.15.1.22.50.1.14.x	Information about memory part number.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
memoryAssetTag	1.3.6.1.4.1.3902.2601.15.1.22.50.1.15.x	Information about memory asset tag.	DisplayString	read-only
memoryType	1.3.6.1.4.1.3902.2601.15.1.22.50.1.16.x	Information about DIMM type.	DisplayString	read-only
memoryFormFactor	1.3.6.1.4.1.3902.2601.15.1.22.50.1.17.x	Information about memory form factor.	DisplayString	read-only
memoryBModuleType	1.3.6.1.4.1.3902.2601.15.1.22.50.1.18.x	Information about memory bmodule type.	DisplayString	read-only
memoryRank	1.3.6.1.4.1.3902.2601.15.1.22.50.1.19.x	Information about memory rank.	Integer	read-only
memoryEccType	1.3.6.1.4.1.3902.2601.15.1.22.50.1.20.x	Information about memory ECC type.	DisplayString	read-only
memoryFrequency	1.3.6.1.4.1.3902.2601.15.1.22.50.1.21.x	Information about memory frequency (MHz).	Integer	read-only
memoryConfiguredFrequency	1.3.6.1.4.1.3902.2601.15.1.22.50.1.22.x	Information about memory configured frequency (MHz).	Integer	read-only
memoryDataWidthBits	1.3.6.1.4.1.3902.2601.15.1.22.50.1.23.x	Information about memory data width.	Integer	read-only
memoryTotalWidthBits	1.3.6.1.4.1.3902.2601.15.1.22.50.1.24.x	Information about total memory width.	Integer	read-only
memoryMinimumVoltage	1.3.6.1.4.1.3902.2601.15.1.22.50.1.25.x	Information about minimum DDR voltage (Volts).	DisplayString	read-only
memoryMaximumVoltage	1.3.6.1.4.1.3902.2601.15.1.22.50.1.26.x	Information about maximum DDR voltage (Volts).	DisplayString	read-only

Object Name	OID	Description	Type	Permission
memoryConfig-uredVoltage	1.3.6.1.4.1.3902.2601.15.1.22.50.1.27.x	Information about current DDR voltage (Volts).	DisplayString	read-only
memoryTempera-ture	1.3.6.1.4.1.3902.2601.15.1.22.50.1.28.x	Information about current temperature (degrees Celsius).	Integer	read-only

The memoryPresenceEntry node describes the tabular objects in the memoryPresenceTable table. The OID of the memoryPresenceEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).memoryProperty(22).memoryPresenceTable(51).memoryPresenceEntry(1)

Note

x indicates the serial number of the memory.

Object Name	OID	Description	Type	Permission
memoryLoca-tionSlot	1.3.6.1.4.1.3902.2601.15.1.22.51.1.1.x	Memory location.	Integer	read-only
memoryPres-enceStatus	1.3.6.1.4.1.3902.2601.15.1.22.51.1.2.x	Memory presence status. ● absence(1) ● presence(2) ● unknown(255)	Integer	read-only

3.15.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.15.3 Constraints on Set Operations

The Set operation is not supported.

3.15.4 Example

```
***** SNMP QUERY STARTED *****
1: memoryEntireStatus.0 (integer) ok(0)
2: memoryMaxSupportNum.0 (integer) 32
3: memoryTotalPresentNum.0 (integer) 0
4: memoryLocationSlot.1 (integer) 1
5: memoryLocationSlot.2 (integer) 2
6: memoryLocationSlot.3 (integer) 3
```

```
7: memoryLocationSlot.4 (integer) 4
8: memoryLocationSlot.5 (integer) 5
9: memoryLocationSlot.6 (integer) 6
10: memoryLocationSlot.7 (integer) 7
11: memoryLocationSlot.8 (integer) 8
12: memoryLocationSlot.9 (integer) 9
13: memoryLocationSlot.10 (integer) 10
14: memoryLocationSlot.11 (integer) 11
15: memoryLocationSlot.12 (integer) 12
16: memoryLocationSlot.13 (integer) 13
17: memoryLocationSlot.14 (integer) 14
18: memoryLocationSlot.15 (integer) 15
19: memoryLocationSlot.16 (integer) 16
20: memoryLocationSlot.17 (integer) 17
21: memoryLocationSlot.18 (integer) 18
22: memoryLocationSlot.19 (integer) 19
23: memoryLocationSlot.20 (integer) 20
24: memoryLocationSlot.21 (integer) 21
25: memoryLocationSlot.22 (integer) 22
26: memoryLocationSlot.23 (integer) 23
27: memoryLocationSlot.24 (integer) 24
28: memoryLocationSlot.25 (integer) 25
29: memoryLocationSlot.26 (integer) 26
30: memoryLocationSlot.27 (integer) 27
31: memoryLocationSlot.28 (integer) 28
32: memoryLocationSlot.29 (integer) 29
33: memoryLocationSlot.30 (integer) 30
34: memoryLocationSlot.31 (integer) 31
35: memoryLocationSlot.32 (integer) 32
36: memoryPresenceStatus.1 (integer) absence(1)
37: memoryPresenceStatus.2 (integer) absence(1)
38: memoryPresenceStatus.3 (integer) absence(1)
39: memoryPresenceStatus.4 (integer) absence(1)
40: memoryPresenceStatus.5 (integer) absence(1)
41: memoryPresenceStatus.6 (integer) absence(1)
42: memoryPresenceStatus.7 (integer) absence(1)
43: memoryPresenceStatus.8 (integer) absence(1)
```

```
44: memoryPresenceStatus.9 (integer) absence(1)
45: memoryPresenceStatus.10 (integer) absence(1)
46: memoryPresenceStatus.11 (integer) absence(1)
47: memoryPresenceStatus.12 (integer) absence(1)
48: memoryPresenceStatus.13 (integer) absence(1)
49: memoryPresenceStatus.14 (integer) absence(1)
50: memoryPresenceStatus.15 (integer) absence(1)
51: memoryPresenceStatus.16 (integer) absence(1)
52: memoryPresenceStatus.17 (integer) absence(1)
53: memoryPresenceStatus.18 (integer) absence(1)
54: memoryPresenceStatus.19 (integer) absence(1)
55: memoryPresenceStatus.20 (integer) absence(1)
56: memoryPresenceStatus.21 (integer) absence(1)
57: memoryPresenceStatus.22 (integer) absence(1)
58: memoryPresenceStatus.23 (integer) absence(1)
59: memoryPresenceStatus.24 (integer) absence(1)
60: memoryPresenceStatus.25 (integer) absence(1)
61: memoryPresenceStatus.26 (integer) absence(1)
62: memoryPresenceStatus.27 (integer) absence(1)
63: memoryPresenceStatus.28 (integer) absence(1)
64: memoryPresenceStatus.29 (integer) absence(1)
65: memoryPresenceStatus.30 (integer) absence(1)
66: memoryPresenceStatus.31 (integer) absence(1)
67: memoryPresenceStatus.32 (integer) absence(1)
***** SNMP QUERY FINISHED *****
```

3.16 fruInfo

3.16.1 Function

Parent Node

The fruInfo node contains a fruCardDescriptionTable table, which includes such tabular objects as FRU number, chassis type, chassis part number, chassis serial number, board manufacturer, board product name, board serial number, board part number, board production date, product manufacturer, product name, product part number, product version number, product serial number, and product asset tag.

The OID of the fruInfo node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantgaeo(3902).ssp(2601)vantageoServer(15).vantageoB MC(1).fru(23)

Child Node

Tabular Objects

The fruDescriptionEntry node describes the tabular objects in the fruCardDescriptionTable table. The OID of the fruDescriptionEntry node is as follows:
1.3.6.1.4.1.3902.2601.15.1.26.50.1
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).fru(23).fruDescriptionTable(50).fruDescriptionEntry(1)

Note

x indicates the serial number of the FRU.

Object Name	OID	Description	Type	Permission
fruId	1.3.6.1.4.1.3902.2601.15.1.23.50.1.1.x	FRU ID.	Integer	read-only
fruChassisType	1.3.6.1.4.1.3902.2601.15.1.23.50.1.2.x	FRU chassis type.	DisplayString	read-only
fruChassisPartNumber	1.3.6.1.4.1.3902.2601.15.1.23.50.1.3.x	FRU chassis part number.	DisplayString	read-only
fruChassisSerialNumber	1.3.6.1.4.1.3902.2601.15.1.23.50.1.4.x	FRU chassis serial number.	DisplayString	read-only
fruBoardMfgDate	1.3.6.1.4.1.3902.2601.15.1.23.50.1.5.x	FRU borad manufacturing date.	DisplayString	read-only
fruBoardManufacturer	1.3.6.1.4.1.3902.2601.15.1.23.50.1.6.x	FRU board manufacturer.	DisplayString	read-only
fruBoardProductName	1.3.6.1.4.1.3902.2601.15.1.23.50.1.7.x	FRU board product name.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
fruBoardSerial-Number	1.3.6.1.4.1.3902.2601.15.1.23.50.1.8.x	FRU board serial number.	DisplayString	read-only
fruBoardPartNum-ber	1.3.6.1.4.1.3902.2601.15.1.23.50.1.9.x	FRU board part number.	DisplayString	read-only
fruProductManu-facturer	1.3.6.1.4.1.3902.2601.15.1.23.50.1.10.x	FRU product manufacturer.	DisplayString	read-only
fruProductName	1.3.6.1.4.1.3902.2601.15.1.23.50.1.11.x	FRU product name.	DisplayString	read-only
fruProductPart-Number	1.3.6.1.4.1.3902.2601.15.1.23.50.1.12.x	FRU product part number.	DisplayString	read-only
fruProductVersion	1.3.6.1.4.1.3902.2601.15.1.23.50.1.13.x	FRU product version.	DisplayString	read-only
fruProductSerial-Number	1.3.6.1.4.1.3902.2601.15.1.23.50.1.14.x	FRU product serial number.	DisplayString	read-only
fruProductAsset-Tag	1.3.6.1.4.1.3902.2601.15.1.23.50.1.15.x	FRU product asset tag.	DisplayString	read-only

3.16.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.16.3 Constraints on Set Operations

The Set operation is not supported.

3.16.4 Example

```
***** SNMP QUERY STARTED *****
1: fruId.0 (integer) 0
2: fruId.2 (integer) 2
3: fruId.6 (integer) 6
4: fruId.17 (integer) 17
```

```
5: fruChassisType.0 (octet string) N/A [4E.2F.41 (hex)]
6: fruChassisType.2 (octet string) N/A [4E.2F.41 (hex)]
7: fruChassisType.6 (octet string) N/A [4E.2F.41 (hex)]
8: fruChassisType.17 (octet string) N/A [4E.2F.41 (hex)]
9: fruChassisPartNumber.0 (octet string) N/A [4E.2F.41 (hex)]
10: fruChassisPartNumber.2 (octet string) N/A [4E.2F.41 (hex)]
11: fruChassisPartNumber.6 (octet string) N/A [4E.2F.41 (hex)]
12: fruChassisPartNumber.17 (octet string) N/A [4E.2F.41 (hex)]
13: fruChassisSerialNumber.0 (octet string) N/A [4E.2F.41 (hex)]
14: fruChassisSerialNumber.2 (octet string) N/A [4E.2F.41 (hex)]
15: fruChassisSerialNumber.6 (octet string) N/A [4E.2F.41 (hex)]
16: fruChassisSerialNumber.17 (octet string) N/A [4E.2F.41 (hex)]
17: fruBoardMfgDate.0 (octet string) 2022-04-03 00:52:00 [32.30.32.32.2D.30.34.2D.30.33.20.30.
30.3A.35.32.3A.30.30 (hex)]
18: fruBoardMfgDate.2 (octet string) 2022-09-01 00:02:00 [32.30.32.32.2D.30.39.2D.30.31.20.30.
30.3A.30.32.3A.30.30 (hex)]
19: fruBoardMfgDate.6 (octet string) 2022-07-15 19:03:00 [32.30.32.32.2D.30.37.2D.31.35.20.31.
39.3A.30.33.3A.30.30 (hex)]
20: fruBoardMfgDate.17 (octet string) N/A [4E.2F.41 (hex)]
21: fruBoardManufacturer.0 (octet string) VANTAGEO [5A.54.45 (hex)]
22: fruBoardManufacturer.2 (octet string) VANTAGEO [5A.54.45 (hex)]
23: fruBoardManufacturer.6 (octet string) VANTAGEO [5A.54.45 (hex)]
24: fruBoardManufacturer.17 (octet string) N/A [4E.2F.41 (hex)]
25: fruBoardProductName.0 (octet string) 2240-RE [52.35.58.47.35.5F.4D.42 (hex)]
26: fruBoardProductName.2 (octet string) 2240-RE [53.57.50.36.35.47.35.30.41 (hex)]
27: fruBoardProductName.6 (octet string) 2240-RE [53.42.46.32.35.4D (hex)]
28: fruBoardProductName.17 (octet string) N/A [4E.2F.41 (hex)]
29: fruBoardSerialNumber.0 (octet string) N/A [4E.2F.41 (hex)]
30: fruBoardSerialNumber.2 (octet string) N/A [4E.2F.41 (hex)]
31: fruBoardSerialNumber.6 (octet string) N/A [4E.2F.41 (hex)]
32: fruBoardSerialNumber.17 (octet string) N/A [4E.2F.41 (hex)]
33: fruBoardPartNumber.0 (octet string) 21080000 [32.31.30.38.30.30.30.30 (hex)]
34: fruBoardPartNumber.2 (octet string) 21120000 [32.31.31.32.30.30.30.30 (hex)]
35: fruBoardPartNumber.6 (octet string) 19010200 [31.39.30.31.30.32.30.30 (hex)]
36: fruBoardPartNumber.17 (octet string) N/A [4E.2F.41 (hex)]
37: fruProductManufacturer.0 (octet string) VANTAGEO [5A.54.45 (hex)]
38: fruProductManufacturer.2 (octet string) VANTAGEO [5A.54.45 (hex)]
```

```
39: fruProductManufacturer.6 (octet string) VANTAGEO [5A.54.45 (hex)]
40: fruProductManufacturer.17 (octet string) Great Wall [47.72.65.61.74.20.57.61.6C.6C
(hex)] 41: fruProductName.0 (octet string) N/A [4E.2F.41 (hex)]
42: fruProductName.2 (octet string) N/A [4E.2F.41 (hex)]
43: fruProductName.6 (octet string) 2240-RE [53.42.46.32.35.4D.41 (hex)]
44: fruProductName.17 (octet string) 2240-RE [43.52.50.53.31.32.30.30.44 (hex)]
45: fruProductPartNumber.0 (octet string) N/A [4E.2F.41 (hex)]
46: fruProductPartNumber.2 (octet string) N/A [4E.2F.41 (hex)]
47: fruProductPartNumber.6 (octet string) N/A [4E.2F.41 (hex)]
48: fruProductPartNumber.17 (octet string) N/A [4E.2F.41 (hex)]
49: fruProductVersion.0 (octet string) N/A [4E.2F.41 (hex)]
50: fruProductVersion.2 (octet string) N/A [4E.2F.41 (hex)]
51: fruProductVersion.6 (octet string) N/A [4E.2F.41 (hex)]
52: fruProductVersion.17 (octet string) DC:1.01 PFC:1.00 [44.43.3A.31.2E.30.31.20.50.46.43.3A.
31.2E.30.30 (hex)]
53: fruProductSerialNumber.0 (octet string) N/A [4E.2F.41 (hex)] 54:
fruProductSerialNumber.2 (octet string) N/A [4E.2F.41 (hex)] 55:
fruProductSerialNumber.6 (octet string) N/A [4E.2F.41 (hex)]
56: fruProductSerialNumber.17 (octet string) 22M010020464 [32.32.4D.30.31.30.30.32.30.34.
36.34 (hex)]
57: fruProductAssetTag.0 (octet string) N/A [4E.2F.41 (hex)]
58: fruProductAssetTag.2 (octet string) N/A [4E.2F.41 (hex)]
59: fruProductAssetTag.6 (octet string) N/A [4E.2F.41 (hex)]
60: fruProductAssetTag.17 (octet string) N/A [4E.2F.41 (hex)]
***** SNMP QUERY FINISHED *****
```

3.17 pCIeDeviceProperty

3.17.1 Function

Parent Node

The pCIeDeviceProperty node contains both scalar objects and tabular objects.

- The scalar objects include the entire health status of the PCIe device.
- The tabular objects include the index, slot number, location type, vendor ID, device ID, sub-vendor ID, sub-system ID, bus number, device number, function number, home CPU number, enabling status, health status, chip model, manufacturer, device description, device type, class code, firmware version, serial number, maximum bandwidth, actual bandwidth, device memory, rated power consumption, and real-time power consumption.

The OID of the pCIeDeviceProperty node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).pCIeDeviceProperty(24)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
pCIeDeviceEntireStatus	1.3.6.1.4.1.3902.2601.15.1.24.1	Entire PCIe device health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only

Tabular Objects

The pCIeDeviceDescriptionEntry node describes the tabular objects in the pCIeDeviceDescriptionTable table. The OID of the pCIeDeviceDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).pCIeDeviceProperty(24).pCIeDeviceDescriptionTable(50).pCIeDeviceDescriptionEntry(1)

Note

x indicates the serial number of the PCIe device.

Object Name	OID	Description	Type	Permission
pCIeDeviceIndex	1.3.6.1.4.1.3902.2601.15.1.24.50.1.1.x	Information about PCIe device index number.	Integer	read-only
pCIeDeviceSlotNumber	1.3.6.1.4.1.3902.2601.15.1.24.50.1.2.x	Information about PCIe device slot number.	Integer	read-only
pCIeDeviceLocationType	1.3.6.1.4.1.3902.2601.15.1.24.50.1.3.x	PCIe device location type. ● embedded(0) ● pcie(1) ● ocp(2)	Integer	read-only
pCIeDeviceVendorID	1.3.6.1.4.1.3902.2601.15.1.24.50.1.4.x	Information about PCIe device vendor ID.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
pCIeDeviceDeviceID	1.3.6.1.4.1.3902.2601.15.1.24.50.1.5.x	Information about PCIe device device ID.	DisplayString	read-only
pCIeDeviceSubVendorID	1.3.6.1.4.1.3902.2601.15.1.24.50.1.6.x	Information about PCIe device subvendor ID.	DisplayString	read-only
pCIeDeviceSubSystemID	1.3.6.1.4.1.3902.2601.15.1.24.50.1.7.x	Information about PCIe device subsystem ID.	DisplayString	read-only
pCIeDeviceBusNum	1.3.6.1.4.1.3902.2601.15.1.24.50.1.8.x	Information about PCIe device bus number.	DisplayString	read-only
pCIeDeviceDeviceNum	1.3.6.1.4.1.3902.2601.15.1.24.50.1.9.x	Information about PCIe device device number.	DisplayString	read-only
pCIeDeviceFunctionNum	1.3.6.1.4.1.3902.2601.15.1.24.50.1.10.x	Information about PCIe device function number.	DisplayString	read-only
pCIeDeviceResourceOwnership	1.3.6.1.4.1.3902.2601.15.1.24.50.1.11.x	Information about home CPU of the PCIe device.	DisplayString	read-only
pCIeDeviceAvailabilityStatus	1.3.6.1.4.1.3902.2601.15.1.24.50.1.12.x	Information about PCIe enabling status. ● unknown(1) ● disabled(2) ● backup(3) ● active(4)	Integer	read-only
pCIeDeviceHealthStatus	1.3.6.1.4.1.3902.2601.15.1.24.50.1.13.x	PCIe device health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
pCIeDeviceModel	1.3.6.1.4.1.3902.2601.15.1.24.50.1.14.x	Information about PCIe device model.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
pCIeDeviceManufacturer	1.3.6.1.4.1.3902.2601.15.1.24.50.1.15.x	Information about PCIe device manufacturer.	DisplayString	read-only
pCIeDeviceDescription	1.3.6.1.4.1.3902.2601.15.1.24.50.1.16.x	Information about PCIe device description.	DisplayString	read-only
pCIeDeviceType	1.3.6.1.4.1.3902.2601.15.1.24.50.1.17.x	Information about PCIe device type.	DisplayString	read-only
pCIeDeviceClassCode	1.3.6.1.4.1.3902.2601.15.1.24.50.1.18.x	PCIe class code ● 1: Mass storage controller ● 2: Network controller ● 3: Display controller ● 4: Multimedia device ● 5: Memory controller ● 6: Bridge device ● 7: Simple communication controllers ● 8: Base system peripherals ● 9: Input devices ● 10: Docking stations ● 11: Processors ● 12: Serial bus controllers ● 13: Wireless controller ● 14: Intelligent IO controllers ● 15: Satellite communication controllers ● 16: Encryption/Decryption controllers ● 17: Data acquisition and signal processing controllers ● 18: Processing Accelerators ● 19-254: Reserved ● 255: Device does not fit in any defined classes	Integer	read-only
pCIeDeviceFirmwareVersion	1.3.6.1.4.1.3902.2601.15.1.24.50.1.19.x	Information about PCIe device firmware version.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
pCIeDeviceSerial-Number	1.3.6.1.4.1.3902.2601.15.1.24.50.1.20.x	Information about PCIe device serial number.	DisplayString	read-only
pCIeDeviceLinkWidthAbility	1.3.6.1.4.1.3902.2601.15.1.24.50.1.21.x	Information about PCIe device link width ability. unknown(0)	Integer	read-only
pCIeDeviceLinkWidth	1.3.6.1.4.1.3902.2601.15.1.24.50.1.22.x	Information about PCIe device link width. unknown(0)	Integer	read-only
pCIeDeviceMemorySize	1.3.6.1.4.1.3902.2601.15.1.24.50.1.23.x	Information about PCIe device total memory size (MB). unknown(0)	Integer	read-only
pCIeDeviceRatedPower	1.3.6.1.4.1.3902.2601.15.1.24.50.1.24.x	Information about PCIe device rated power (W). unknown(0)	Integer	read-only
pCIeDeviceCurrentPower	1.3.6.1.4.1.3902.2601.15.1.30.24.1.25.x	Information about PCIe device current power (W). unknown(0)	Integer	read-only
pCIeDeviceLocator	1.3.6.1.4.1.3902.2601.15.1.30.24.1.26.x	Information about location.	DisplayString	read-only

3.17.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.17.3 Constraints on Set Operations

The Set operation is not supported.

3.17.4 Example

```
***** SNMP QUERY STARTED *****
1: pCIeDeviceEntireStatus.0 (integer) ok(0)
2: pCIeDeviceIndex.1 (integer) 1
3: pCIeDeviceSlotNumber.1 (integer) 64
4: pCIeDeviceLocationType.1 (integer) ocp(2)
5: pCIeDeviceVendorID.1 (octet string) 0x8086 [30.78.38.30.38.36 (hex)]
6: pCIeDeviceDeviceID.1 (octet string) 0x159b [30.78.31.35.39.62 (hex)]
7: pCIeDeviceSubVendorID.1 (octet string) 0x8086 [30.78.38.30.38.36 (hex)]
```

```
8: pCIeDeviceSubSystemID.1 (octet string) 0x0005 [30.78.30.30.30.35 (hex)]
9: pCIeDeviceBusNum.1 (octet string) N/A [4E.2F.41 (hex)]
10: pCIeDeviceDeviceNum.1 (octet string) N/A [4E.2F.41 (hex)]
11: pCIeDeviceFunctionNum.1 (octet string) N/A [4E.2F.41 (hex)]
12: pCIeDeviceResourceOwnership.1 (octet string) N/A [4E.2F.41 (hex)]
13: pCIeDeviceAvailabilityStatus.1 (integer) active(4)
14: pCIeDeviceHealthStatus.1 (integer) ok(0)
15: pCIeDeviceModel.1 (octet string) E810 [45.38.31.30 (hex)]
16: pCIeDeviceManufacturer.1 (octet string) Intel [49.6E.74.65.6C (hex)]
17: pCIeDeviceDescription.1 (octet string) E810-XXVDA2 [45.38.31.30.2D.58.58.56.44.41.32
    (hex)]
18: pCIeDeviceType.1 (octet string) NIC [4E.49.43 (hex)]
19: pCIeDeviceClassCode.1 (integer) network(2)
20: pCIeDeviceFirmwareVersion.1 (octet string) 2.3 [32.2E.33 (hex)]
21: pCIeDeviceSerialNumber.1 (octet string) N/A [4E.2F.41 (hex)]
22: pCIeDeviceLinkWidthAbility.1 (integer) unknown(0)
23: pCIeDeviceLinkWidth.1 (integer) unknown(0)
24: pCIeDeviceMemorySize.1 (integer) unknown(0)
25: pCIeDeviceRatedPower.1 (integer) unknown(0)
26: pCIeDeviceCurrentPower.1 (integer) unknown(0)
***** SNMP QUERY FINISHED *****
```

3.18 netCardProperty

3.18.1 Function

Parent Node

The netCardProperty node contains tabular objects in two tables.

- The tabular objects in the netCardDescriptionTable table include the NIC number, physical location, NIC slot number, NIC device name, NIC health status, NIC name, NIC manufacturer name, NIC chip name, NIC chip manufacturer name, maximum number of NIC ports, NIC port type, NIC model, NIC temperature, historical highest temperature, NIC firmware version, NIC serial number, NIC driver name, NIC BDF, and NIC part number.
- The tabular objects in the netPortDescriptionTable table include the network port number, network port silkscreen number, network port type, network port link status, nominal network port rate, current network port rate, network port MAC address, network port negotiation mode, network port duplex mode, network port LLDP mode, network port BDF, and home NIC device name.

- The tabular objects in the netCardMemoryInfoDescriptionTable table include the NIC number, NIC memory number, NIC memory type, NIC memory mode, NIC memory capacity, and NIC memory status.

The OID of the netCardProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantgaeoB MC(1).netCardProperty(26)

Child Node

Tabular Objects

The netCardDescriptionEntry node describes the tabular objects in the netCardDescriptionTable table. The OID of the netCardDescriptionEntry node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).netCardProperty(26).netCardDescriptionTable(50).netCardDescriptionEntry(1)

Note

x indicates the serial number of the NIC.

Object Name	OID	Description	Type	Permission
netCardIndex	1.3.6.1.4.1.3902.2601.15.1.26.50.1.1.x	Net card index.	Integer	read-only
netCardLocationType	1.3.6.1.4.1.3902.2601.15.1.26.50.1.2.x	Net card location type: ● embedded(0) ● pcie(1) ● ocp(2) ● unknown(255)	Integer	read-only
netCardLocationSlot	1.3.6.1.4.1.3902.2601.15.1.26.50.1.3.x	Net card location slot.	Integer	read-only
netCardDevicename	1.3.6.1.4.1.3902.2601.15.1.26.50.1.4.x	Net card slot info string: location type + location slot. For example, Pcie Card 5.	DisplayString	read-only
netCardHealthStatus	1.3.6.1.4.1.3902.2601.15.1.26.50.1.5.x	Net card health status: ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only

Object Name	OID	Description	Type	Permission
netCardNICName	1.3.6.1.4.1.3902.2601.15.1.26.50.1.6.x	Net card NIC name.	DisplayString	read-only
netCardNICManufacturer	1.3.6.1.4.1.3902.2601.15.1.26.50.1.7.x	Information about net card NIC manufacturer name.	DisplayString	read-only
netCardChipModel	1.3.6.1.4.1.3902.2601.15.1.26.50.1.8.x	Information about net card chip name.	DisplayString	read-only
netCardChipManufacturer	1.3.6.1.4.1.3902.2601.15.1.26.50.1.9.x	Information about net card chip manufacturer name.	DisplayString	read-only
netCardMaxPortNumber	1.3.6.1.4.1.3902.2601.15.1.26.50.1.10.x	Information about net card max port number.	Integer	read-only
netCardPortsType	1.3.6.1.4.1.3902.2601.15.1.26.50.1.11.x	Information about ports on net card type: ● copper(0) ● fiber(1) ● serdes(2) ● copperfiber(3) ● fiberserdes(4) ● unknown(255)	Integer	read-only
netCardNICModel	1.3.6.1.4.1.3902.2601.15.1.26.50.1.12.x	Information about net card NIC model. For example, 20GE +2*25GE.	DisplayString	read-only
netCardTemperature	1.3.6.1.4.1.3902.2601.15.1.26.50.1.13.x	Net card temperature. 0xFF means netcard is not support to get temperature. unknown(255)	Integer	read-only
netCardHistoryMaxTemperature	1.3.6.1.4.1.3902.2601.15.1.26.50.1.14.x	Net card history max temperature. 0xFF means netcard is not support to get temperature. unknown(255)	Integer	read-only
netCardFirmwareVersion	1.3.6.1.4.1.3902.2601.15.1.26.50.1.15.x	Net card firmware version.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
netCardSerial-Number	1.3.6.1.4.1.3902.2601.15.1.26.50.1.16.x	Net card serial number.	DisplayString	read-only
netCardDriver-Name	1.3.6.1.4.1.3902.2601.15.1.26.50.1.17.x	Net card driver name.	DisplayString	read-only
netCardRootBDF	1.3.6.1.4.1.3902.2601.15.1.26.50.1.18.x	Net card root BDF (same as first port BDF).	DisplayString	read-only
netCardPartNum-ber	1.3.6.1.4.1.3902.2601.15.1.26.50.1.19.x	Net card part number.	DisplayString	read-only
netCardFpgaSta-tus	1.3.6.1.4.1.3902.2601.15.1.26.50.1.20.x	Smart card FPGA health status: ● normal(0) ● abnormal(1) ● unknown(255)	Integer	read-only
netCardFp-gaTempStatus	1.3.6.1.4.1.3902.2601.15.1.26.50.1.21.x	Smart card FPGA temp health sta-tus: ● normal(0) ● abnormal(1) ● unknown(255)	Integer	read-only

The netPortDescriptionEntry node describes the tabular objects in the netPortDescriptionTable table. The OID of the netPortDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).netCardProperty(26).netPortDescriptionTable(51).netPortDescriptionEntry(1)

Note

x indicates the serial number of the NIC, and y indicates the serial number of the network port.

Object Name	OID	Description	Type	Permission
netPortNICIndex	1.3.6.1.4.1.3902.2601.15.1.26.51.1.1.x.y	Net port owner net card index.	Integer	read-only
netPortLocation	1.3.6.1.4.1.3902.2601.15.1.26.51.1.2.x.y	Net card port location num, de-pends on silk.	Integer	read-only

Object Name	OID	Description	Type	Permission
netPortType	1.3.6.1.4.1.3902.2601.15.1.26.51.1.3.x.y	Net port type: ● copper(0) ● fiber(1) ● serdes(2) ● unknown(255)	Integer	read-only
netPortLinkStatus	1.3.6.1.4.1.3902.2601.15.1.26.51.1.4.x.y	Net port type: ● linkdown(0) ● linkup(1) ● unknown(255)	Integer	read-only
netPortCapableSpeed	1.3.6.1.4.1.3902.2601.15.1.26.51.1.5.x.y	Net port capable speed: ● speed10M(0) ● speed100M(1) ● speed1G(2) ● speed2.5G(3) ● speed5G(4) ● speed10G(5) ● speed25G(6) ● speed40G(7) ● speed50G(8) ● speed56G(9) ● speed100G(10) ● speed200G(11) ● speed400G(12) ● speed800G(13) ● unknown(15)	Integer	read-only
netPortCurrentSpeed	1.3.6.1.4.1.3902.2601.15.1.26.51.1.6.x.y	Net port current speed: ● speed10M(0) ● speed100M(1) ● speed1G(2) ● speed2.5G(3) ● speed5G(4) ● speed10G(5) ● speed25G(6) ● speed40G(7) ● speed50G(8) ● speed56G(9) ● speed100G(10) ● speed200G(11) ● speed400G(12) ● speed800G(13) ● unknown(15)	Integer	read-only

Object Name	OID	Description	Type	Permission
netPortMacAddr	1.3.6.1.4.1.3902.2601.15.1.26.51.1.7.x.y	Net port MAC address.	DisplayString	read-only
netPortNegotiatedMode	1.3.6.1.4.1.3902.2601.15.1.26.51.1.8.x.y	Net port negotiated mode: ● auto(0) ● force(1) ● unknown(255)	Integer	read-only
netPortDuplexMode	1.3.6.1.4.1.3902.2601.15.1.26.51.1.9.x.y	Net port duplex mode: ● halfduplex(0) ● fullduplex(1) ● notaccess(254) ● unknown(255)	Integer	read-only
netPortLldpMode	1.3.6.1.4.1.3902.2601.15.1.26.51.1.10.x.y	Net port LLDP mode: ● lldpdisable(0) ● lldptxmode(1) ● lldprxmode(2) ● lldptxrxmode(3) ● unknown(255)	Integer	read-only
netPortBDF	1.3.6.1.4.1.3902.2601.15.1.26.51.1.11.x.y	Net port BDF.	DisplayString	read-only
netPortNICDeviceName	1.3.6.1.4.1.3902.2601.15.1.26.51.1.12.x.y	Net port owner net card device name. Same as owner card netCardDevicename	DisplayString	read-only

The netCardMemoryInfoDescriptionEntry node describes the tabular objects in the netCardMemoryInfoDescriptionTable table. The OID of the netCardMemoryInfoDescriptionEntry node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).netCardProperty(26).netCardMemoryInfoDescriptionTable(52).netCardMemoryInfoDesc riptionEntry(1)

Note

x indicates the serial number of the NIC, and z indicates the serial number of the NIC memory.

Object Name	OID	Description	Type	Permission
netCardIndex	1.3.6.1.4.1.3902.2601.15.1.26.52.1.1.x.z	NIC index.	Integer	read-only

Object Name	OID	Description	Type	Permission
netCardMemId	1.3.6.1.4.1.3902.2601.15.1.26.52.1.2.x.z	NIC memory index.	Integer	read-only
netCardMemType	1.3.6.1.4.1.3902.2601.15.1.26.52.1.3.x.z	NIC memory type define as: ● qdr(1) ● ddr(2) ● unknown(255)	Integer	read-only
netCardMemMode	1.3.6.1.4.1.3902.2601.15.1.26.52.1.4.x.z	NIC memory mode define as: ● qdr4-2000mhz(1) ● ddr4-2400mhz(2) ● ddr4-2000mhz(3) ● unknown(255)	Integer	read-only
netCardMemCapa	1.3.6.1.4.1.3902.2601.15.1.26.52.1.5.x.z	NIC memory capacity.	Integer	read-only
netCardMemStatus	1.3.6.1.4.1.3902.2601.15.1.26.52.1.6.x.z	NIC memory status define as: ● normal(0) ● abnormal(1) ● unknown(255)	Integer	read-only

3.18.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.18.3 Constraints on Set Operations

The Set operation is not supported.

3.18.4 Example

```
***** SNMP QUERY STARTED *****
1: netCardIndex.1 (integer) 1
2: netCardLocationType.1 (integer) ocp(2)
3: netCardLocationSlot.1 (integer) 1
4: netCardDevicename.1 (octet string) OCP 1 [4F.43.50.20.31 (hex)]
5: netCardHealthStatus.1 (integer) ok(0)
6: netCardNICName.1 (octet string) E810-XXVDA2 [45.38.31.30.2D.58.58.56.44.41.32 (hex)]
7: netCardNICManufacturer.1 (octet string) Intel [49.6E.74.65.6C (hex)]
```

```
8: netCardChipModel.1 (octet string) E810 [45.38.31.30 (hex)]
9: netCardChipManufacturer.1 (octet string) Intel [49.6E.74.65.6C (hex)]
10: netCardMaxPortNumber.1 (integer) 2
11: netCardPortsType.1 (integer) fiber(1)
12: netCardNICModel.1 (octet string) 2*25GE [32.2A.32.35.47.45 (hex)]
13: netCardTemperature.1 (integer) unknown(255)
14: netCardHistoryMaxTemperature.1 (integer) unknown(255)
15: netCardFirmwareVersion.1 (octet string) 2.3 [32.2E.33 (hex)]
16: netCardSerialNumber.1 (octet string) N/A [4E.2F.41 (hex)]
17: netCardDriverName.1 (octet string) ice [69.63.65 (hex)]
18: netCardRootBDF.1 (octet string) N/A [4E.2F.41 (hex)]
19: netCardPartNumber.1 (octet string) N/A [4E.2F.41 (hex)]
20: netPortNICIndex.1.1 (integer) 1
21: netPortNICIndex.1.2 (integer) 1
22: netPortLocation.1.1 (integer) 1
23: netPortLocation.1.2 (integer) 2
24: netPortType.1.1 (integer) fiber(1)
25: netPortType.1.2 (integer) fiber(1)
26: netPortLinkStatus.1.1 (integer) linkdown(0)
27: netPortLinkStatus.1.2 (integer) linkdown(0)
28: netPortCapableSpeed.1.1 (integer) speed25G(5)
29: netPortCapableSpeed.1.2 (integer) speed25G(5)
30: netPortCurrentSpeed.1.1 (integer) unknown(15)
31: netPortCurrentSpeed.1.2 (integer) unknown(15)
32: netPortMacAddr.1.1 (octet string) N/A [4E.2F.41 (hex)]
33: netPortMacAddr.1.2 (octet string) N/A [4E.2F.41 (hex)]
34: netPortNegotiatedMode.1.1 (integer) force(1)
35: netPortNegotiatedMode.1.2 (integer) force(1)
36: netPortDuplexMode.1.1 (integer) unknown(255)
37: netPortDuplexMode.1.2 (integer) unknown(255)
38: netPortLldpMode.1.1 (integer) lldpdisable(0)
39: netPortLldpMode.1.2 (integer) lldpdisable(0)
40: netPortBDF.1.1 (octet string) N/A [4E.2F.41 (hex)]
41: netPortBDF.1.2 (octet string) N/A [4E.2F.41 (hex)]
42: netPortNICDeviceName.1.1 (octet string) OCP 1 [4F.43.50.20.31 (hex)]
43: netPortNICDeviceName.1.2 (octet string) OCP 1 [4F.43.50.20.31 (hex)]
44: netCardIndex.1.1 (integer) 1
```

```
45: netCardMemId.1.1 (integer) 1
46: netCardMemId.1.2 (integer) 2
47: netCardMemId.1.3 (integer) 3
48: netCardMemType.1.1 (integer) ddr(2)
49: netCardMemType.1.2 (integer) ddr(2)
50: netCardMemType.1.3 (integer) ddr(2)
51: netCardMemMode.1.1 (integer) ddr4-2400mhz(2)
52: netCardMemMode.1.2 (integer) ddr4-2400mhz(2)
53: netCardMemMode.1.3 (integer) ddr4-2400mhz(2)
54: netCardMemCapa.1.1 (integer) 1
55: netCardMemCapa.1.2 (integer) 0
56: netCardMemCapa.1.3 (integer) 0
57: netCardMemStatus.1.1 (integer) abnormal(1)
58: netCardMemStatus.1.2 (integer) normal(0)
59: netCardMemStatus.1.3 (integer) normal(0)
***** SNMP QUERY FINISHED *****
```

3.19 fcCardProperty

3.19.1 Function

Parent Node

The fcCardProperty node contains tabular objects in two tables.

- The tabular objects in the fcCardDescriptionTable table include the FC card number, slot type, slot number, device name, health status, FC card name, manufacturer name, chip name, chip manufacturer name, maximum number of ports, FC card model, firmware version, serial number, FC card BDF, driver name, driver version, and temperature.
- The tabular objects in the fcPortDescriptionTable table include the FC card port number, FC port silkscreen number, link status, supported rate, current rate, WWNN, WWPN, port BDF, and name of the FC card that the port belongs to.

The OID of the fcCardProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).fcCardProperty (27)

Child Node

Tabular Objects

The fcCardDescriptionEntry node describes the tabular objects in the fcCardDescriptionTable table. The OID of the fcCardDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).fcCardProperty(27).fcCardDescriptionTable(50).fcCardDescriptionEntry(1)

Note

x indicates the serial number of the FC card.

Object Name	OID	Description	Type	Permission
fcCardIndex	1.3.6.1.4.1.3902.2601.15.1.27.50.1.1.x	FC card index.	Integer	read-only
fcCardLocationType	1.3.6.1.4.1.3902.2601.15.1.27.50.1.2.x	FC card location type: ● pcie(1) ● unknown(255)	Integer	read-only
fcCardLocationSlot	1.3.6.1.4.1.3902.2601.15.1.27.50.1.3.x	FC card location slot.	Integer	read-only
fcCardDevicename	1.3.6.1.4.1.3902.2601.15.1.27.50.1.4.x	FC card slot info string: location type + location slot. For example, Pcie Card 5.	DisplayString	read-only
fcCardHealthStatus	1.3.6.1.4.1.3902.2601.15.1.27.50.1.5.x	FC card health status: ● health(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
fcCardName	1.3.6.1.4.1.3902.2601.15.1.27.50.1.6.x	FC card name.	DisplayString	read-only
fcCardManufacturer	1.3.6.1.4.1.3902.2601.15.1.27.50.1.7.x	FC card manufacturer name.	DisplayString	read-only
fcCardChipModel	1.3.6.1.4.1.3902.2601.15.1.27.50.1.8.x	FC card chip name.	DisplayString	read-only
fcCardChipManufacturer	1.3.6.1.4.1.3902.2601.15.1.27.50.1.9.x	FC card chip manufacturer name.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
fcCardMaxPort-Number	1.3.6.1.4.1.3902.2601.15.1.27.50.1.10.x	FC card max port number.	Integer	read-only
fcCardModel	1.3.6.1.4.1.3902.2601.15.1.27.50.1.11.x	FC card model (for example, 2*16GE).	DisplayString	read-only
fcCardFirmware-Version	1.3.6.1.4.1.3902.2601.15.1.27.50.1.12.x	FC card firmware version.	DisplayString	read-only
fcCardSerialNum-ber	1.3.6.1.4.1.3902.2601.15.1.27.50.1.13.x	FC card serial number.	DisplayString	read-only
fcCardRootBDF	1.3.6.1.4.1.3902.2601.15.1.27.50.1.14.x	FC card root BDF.	DisplayString	read-only
fcCardDriver-Name	1.3.6.1.4.1.3902.2601.15.1.27.50.1.15.x	FC card driver name.	DisplayString	read-only
fcCardDriverVer-sion	1.3.6.1.4.1.3902.2601.15.1.27.50.1.16.x	FC card driver version.	DisplayString	read-only
fcCardTempera-ture	1.3.6.1.4.1.3902.2601.15.1.27.50.1.17.x	FC card temperature. 0xFF means FC card is not supported to get temperature. unknown(255)	Integer	read-only

The fcPortDescriptionTableEntry node describes the tabular objects in the fcPortDescriptionTable table. The OID of the fcPortDescriptionTableEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).fcCardProperty(27).fcPortDescriptionTable(51).fcPortDescriptionTableEntry(1)

Note

x indicates the serial number of the FC card, and y indicates the serial number of the network interface.

Object Name	OID	Description	Type	Permission
fcPortCardIndex	1.3.6.1.4.1.3902.2601.15.1.27.51.1.1.x.y	FC port owner FC card index.	Integer	read-only

Object Name	OID	Description	Type	Permission
fcPortLocation	1.3.6.1.4.1.3902.2601.15.1.27.51.1.2.x.y	FC card port location num, depends on silk.	Integer	read-only
fcPortLinkStatus	1.3.6.1.4.1.3902.2601.15.1.27.51.1.3.x.y	FC port link status: ● linkdown(0) ● linkup(1) ● unknown(255)	Integer	read-only
fcPortSupport-Speed	1.3.6.1.4.1.3902.2601.15.1.27.51.1.4.x.y	FC port capable speed: ● supportSpeed4-8-16G(28) ● supportSpeed8-16-32G(56) ● unknown(255)	Integer	read-only
fcPortCurren-tSpeed	1.3.6.1.4.1.3902.2601.15.1.27.51.1.5.x.y	FC port current speed: ● speedauto(0) ● speed4G(4) ● speed8G(8) ● speed16G(16) ● speed32G(32) ● unknown(255)	Integer	read-only
fcPortWwnn	1.3.6.1.4.1.3902.2601.15.1.27.51.1.6.x.y	FC port WWNN.	DisplayString	read-only
fcPortWwpn	1.3.6.1.4.1.3902.2601.15.1.27.51.1.7.x.y	FC port WWPN.	DisplayString	read-only
fcPortBDF	1.3.6.1.4.1.3902.2601.15.1.27.51.1.8.x.y	FC port BDF.	DisplayString	read-only
fcPortCardDevi-ceName	1.3.6.1.4.1.3902.2601.15.1.27.51.1.9.x.y	FC port owner FC card device name. Same as owner card fcCard-Devicename.	DisplayString	read-only

3.19.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.19.3 Constraints on Set Operations

The Set operation is not supported.

3.19.4 Example

```
***** SNMP QUERY STARTED *****
1: fcCardIndex.1 (integer) 1
2: fcCardIndex.2 (integer) 2
3: fcCardLocationType.1 (integer) pcie(1)
4: fcCardLocationType.2 (integer) pcie(1)
5: fcCardLocationSlot.1 (integer) 5
6: fcCardLocationSlot.2 (integer) 6
7: fcCardDevicename.1 (octet string) PCIE Card 5 [50.43.49.45.20.43.61.72.64.20.35 (hex)]
8: fcCardDevicename.2 (octet string) PCIE Card 6 [50.43.49.45.20.43.61.72.64.20.36 (hex)]
9: fcCardHealthStatus.1 (integer) ok(0)
10: fcCardHealthStatus.2 (integer) ok(0)
11: fcCardName.1 (octet string) QLE2690-ACE-SP [51.4C.45.32.36.39.30.2D.41.43.45.2D.53.50
    (hex)]
12: fcCardName.2 (octet string) QLE2740-ACE-SP [51.4C.45.32.37.34.30.2D.41.43.45.2D.53.50
    (hex)]
13: fcCardManufacturer.1 (octet string) Qlogic [51.6C.6F.67.69.63 (hex)]
14: fcCardManufacturer.2 (octet string) Qlogic [51.6C.6F.67.69.63 (hex)]
15: fcCardChipModel.1 (octet string) ISP2722 [49.53.50.32.37.32.32 (hex)]
16: fcCardChipModel.2 (octet string) ISP2722 [49.53.50.32.37.32.32 (hex)]
17: fcCardChipManufacturer.1 (octet string) Qlogic [51.6C.6F.67.69.63 (hex)]
18: fcCardChipManufacturer.2 (octet string) Qlogic [51.6C.6F.67.69.63 (hex)]
19: fcCardMaxPortNumber.1 (integer) 1
20: fcCardMaxPortNumber.2 (integer) 1
21: fcCardModel.1 (octet string) 1*16GE [31.2A.31.36.47.45 (hex)]
22: fcCardModel.2 (octet string) 1*32GE [31.2A.33.32.47.45 (hex)]
23: fcCardFirmwareVersion.1 (octet string) 01.07.06.00 [30.31.2E.30.37.2E.30.36.2E.30.30
    (hex)]
24: fcCardFirmwareVersion.2 (octet string) 02.50.05.00 [30.32.2E.35.30.2E.30.35.2E.30.30
    (hex)]
25: fcCardSerialNumber.1 (octet string) RFD2049P13324 [52.46.44.32.30.34.39.50.31.33.33.32.34
    (hex)]
26: fcCardSerialNumber.2 (octet string) RFD2124S86312 [52.46.44.32.31.32.34.53.38.36.33.31.32
    (hex)]
27: fcCardRootBDF.1 (octet string) 0000:16:00.0 [30.30.30.30.3A.31.36.3A.30.30.2E.30 (hex)]
28: fcCardRootBDF.2 (octet string) 0000:a8:00.0 [30.30.30.30.3A.61.38.3A.30.30.2E.30 (hex)]
29: fcCardDriverName.1 (octet string) qla2xxx [71.6C.61.32.78.78.78 (hex)]
```

```
30: fcCardDriverName.2 (octet string) qla2xxx [71.6C.61.32.78.78.78 (hex)]
31: fcCardDriverVersion.1 (octet string) N/A [4E.2F.41 (hex)]
32: fcCardDriverVersion.2 (octet string) N/A [4E.2F.41 (hex)]
33: fcCardTemperature.1 (integer) 62
34: fcCardTemperature.2 (integer) 69
35: fcPortCardIndex.1.1 (integer) 1
36: fcPortCardIndex.2.1 (integer) 2
37: fcPortLocation.1.1 (integer) 1
38: fcPortLocation.2.1 (integer) 1
39: fcPortLinkStatus.1.1 (integer) linkdown(0)
40: fcPortLinkStatus.2.1 (integer) linkdown(0)
41: fcPortSupportSpeed.1.1 (integer) supportSpeed4-8-16G(28)
42: fcPortSupportSpeed.2.1 (integer) supportSpeed8-16-32G(56)
43: fcPortCurrentSpeed.1.1 (integer) unknown(255)
44: fcPortCurrentSpeed.2.1 (integer) unknown(255)
45: fcPortWwnn.1.1 (octet string) 20:00:34:80:0d:3e:c9:a0 [32.30.3A.30.30.3A.33.34.3A.38.30.
    3A.30.64.3A.33.65.3A.63.39.3A.61.30  (hex)]
46: fcPortWwnn.2.1 (octet string) 20:00:34:80:0d:3f:73:ee [32.30.3A.30.30.3A.33.34.3A.38.30.
    3A.30.64.3A.33.66.3A.37.33.3A.65.65  (hex)]
47: fcPortWwpn.1.1 (octet string) 21:00:34:80:0d:3e:c9:a0 [32.31.3A.30.30.3A.33.34.3A.38.30.
    3A.30.64.3A.33.65.3A.63.39.3A.61.30  (hex)]
48: fcPortWwpn.2.1 (octet string) 21:00:34:80:0d:3f:73:ee [32.31.3A.30.30.3A.33.34.3A.38.30.
    3A.30.64.3A.33.66.3A.37.33.3A.65.65  (hex)]
49: fcPortBDF.1.1 (octet string) 0000:16:00.0 [30.30.30.30.3A.31.36.3A.30.30.2E.30 (hex)]
50: fcPortBDF.2.1 (octet string) 0000:a8:00.0 [30.30.30.30.3A.61.38.3A.30.30.2E.30 (hex)]
51: fcPortCardDeviceName.1.1 (octet string) PCIE Card 5 [50.43.49.45.20.43.61.72.64.20.35
    (hex)]
52: fcPortCardDeviceName.2.1 (octet string) PCIE Card 6 [50.43.49.45.20.43.61.72.64.20.36
    (hex)]
***** SNMP QUERY FINISHED *****
```

3.20 gpuProperty

3.20.1 Function

Parent Node

The gpuProperty node contains a gpuDescriptionTable table, which includes such tabular objects as GPU ID, GPU core ID, slot type, slot number, device name, health status, current pow-

er, current temperature, GPU name, manufacturer name, firmware version number, production date, part number, serial number, maximum number of cores, memory size, and rated power. The OID of the gpuProperty node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).gpuProperty (28)

Child Node

Tabular Objects

The gpuDescriptionEntry node describes the tabular objects in the gpuDescriptionTable table. The OID of the gpuDescriptionEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).gpuProperty (28).gpuDescriptionTable(50).gpuDescriptionEntry(1)

Note

x indicates the serial number of the GPU, and y indicates the core ID.

Object Name	OID	Description	Type	Permission
gpuIndex	1.3.6.1.4.1.3902.2601.15.1.28.50.1.1.x.y	GPU index.	Integer	read-only
gpuId	1.3.6.1.4.1.3902.2601.15.1.28.50.1.2.x.y	GPU core ID.	Integer	read-only
gpuLocationType	1.3.6.1.4.1.3902.2601.15.1.28.50.1.3.x.y	GPU location type: ● pcie(1) ● module(3) ● unknown(255)	Integer	read-only
gpuLocationSlot	1.3.6.1.4.1.3902.2601.15.1.28.50.1.4.x.y	GPU location slot.	Integer	read-only
gpuDevicename	1.3.6.1.4.1.3902.2601.15.1.28.50.1.5.x.y	GPU slot info string: location type + location slot. For example, Pcie Card 5.	DisplayString	read-only
gpuHealthStatus	1.3.6.1.4.1.3902.2601.15.1.28.50.1.6.x.y	GPU health status: ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only

Object Name	OID	Description	Type	Permission
gpuCurrentPower	1.3.6.1.4.1.3902.2601.15.1.28.50.1.7.x.y	GPU current power (mW). unknown(-1)	Integer	read-only
gpuCurrentTemperature	1.3.6.1.4.1.3902.2601.15.1.28.50.1.8.x.y	GPU current temperature. unknown(255)	Integer	read-only
gpuName	1.3.6.1.4.1.3902.2601.15.1.28.50.1.9.x.y	GPU card name.	DisplayString	read-only
gpuManufacturer	1.3.6.1.4.1.3902.2601.15.1.28.50.1.10.x.y	GPU card manufacturer name.	DisplayString	read-only
gpuFirmwareVersion	1.3.6.1.4.1.3902.2601.15.1.28.50.1.11.x.y	GPU firmware version.	DisplayString	read-only
gpuBuildDate	1.3.6.1.4.1.3902.2601.15.1.28.50.1.12.x.y	GPU build date.	DisplayString	read-only
gpuPartNumber	1.3.6.1.4.1.3902.2601.15.1.28.50.1.13.x.y	GPU part number.	DisplayString	read-only
gpuSerialNumber	1.3.6.1.4.1.3902.2601.15.1.28.50.1.14.x.y	GPU serial number.	DisplayString	read-only
gpuMaxCoreNumber	1.3.6.1.4.1.3902.2601.15.1.28.50.1.15.x.y	GPU max core number.	Integer	read-only
gpuMemorySize	1.3.6.1.4.1.3902.2601.15.1.28.50.1.16.x.y	GPU memory size (GB).	Integer	read-only
gpuRatedPower	1.3.6.1.4.1.3902.2601.15.1.28.50.1.17.x.y	GPU rated power (W).	Integer	read-only
gpuCurrentMemoryTemperature	1.3.6.1.4.1.3902.2601.15.1.28.50.1.18.x.y	GPU current memory temperature. unknown(255)	Integer	read-only

Object Name	OID	Description	Type	Permission
gpuMemoryBand-Width	1.3.6.1.4.1.3902.2601.15.1.28.50.1.19.x.y	GPU memory bandwidth (GB/s).	Integer	read-only

3.20.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.20.3 Constraints on Set Operations

The Set operation is not supported.

3.21 raidControllerProperty

3.21.1 Function

Parent Node

The raidControllerProperty node contains a raidControllerDescriptionTable table, which includes such tabular objects as RAID controller name, type, health status, firmware version, interface type, and BBU model.

The OID of the raidControllerProperty node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).raidControllerProperty(29)

Child Node

Tabular Objects

The raidControllerDescriptionEntry node describes the tabular objects in the raidControllerDescriptionTable table. The OID of the raidControllerDescriptionEntry node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).raidControllerProperty(29).raidControllerDescriptionTable(50).raidControllerDescriptionEntry(1)

Note

x indicates the serial number of the RAID controller.

Object Name	OID	Description	Type	Permission
raidControllerIn-dex	1.3.6.1.4.1.3902.2601.15.1.29.50.1.1.x	Information about RAID controller index.	Integer	read-only

Object Name	OID	Description	Type	Permission
raidControllerId	1.3.6.1.4.1.3902.2601.15.1.29.50.1.2.x	Information about RAID controller ID.	Integer	read-only
raidController-Name	1.3.6.1.4.1.3902.2601.15.1.29.50.1.3.x	Information about RAID controller name.	DisplayString	read-only
raidController-ComponentName	1.3.6.1.4.1.3902.2601.15.1.29.50.1.4.x	Information about RAID controller component name.	DisplayString	read-only
raidController-Mode	1.3.6.1.4.1.3902.2601.15.1.29.50.1.5.x	Information about RAID controller mode. ● RAID(1) ● HBA(2) ● JBOD(3) ● Mixed(4) ● Unknown(255)	Integer	read-only
raidController-LocationType	1.3.6.1.4.1.3902.2601.15.1.29.50.1.6.x	Information about RAID controller location type. ● embedded(1) ● PCIe(2) ● Unknown(255)	Integer	read-only
raidController-LocationSlot	1.3.6.1.4.1.3902.2601.15.1.29.50.1.7.x	Information about RAID controller location slot.	Integer	read-only
raidControllerVen-dor	1.3.6.1.4.1.3902.2601.15.1.29.50.1.8.x	Information about RAID controller vendor.	DisplayString	read-only
raidController-ChipVendor	1.3.6.1.4.1.3902.2601.15.1.29.50.1.9.x	Information about RAID controller chip vendor.	DisplayString	read-only
raidController-ChipModel	1.3.6.1.4.1.3902.2601.15.1.29.50.1.10.x	Information about RAID controller chip model.	DisplayString	read-only
raidController-HealthStatus	1.3.6.1.4.1.3902.2601.15.1.29.50.1.11.x	Information about RAID controller health status. ● ok(0) ● minor(2) ● major(3) ● critical(4)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• unknown(255)		
raidControllerSupportOOBManagement	1.3.6.1.4.1.3902.2601.15.1.29.50.1.12.x	Information about RAID controller if support OOB management. • no(1) • yes(2)	Integer	read-only
raidControllerFwVersion	1.3.6.1.4.1.3902.2601.15.1.29.50.1.13.x	Information about RAID controller firmware version.	DisplayString	read-only
raidControllerPackageVersion	1.3.6.1.4.1.3902.2601.15.1.29.50.1.14.x	Information about RAID controller firmware package version.	DisplayString	read-only
raidControllerNVDataVersion	1.3.6.1.4.1.3902.2601.15.1.29.50.1.15.x	Information about RAID controller NVData version.	DisplayString	read-only
raidControllerBiosVersion	1.3.6.1.4.1.3902.2601.15.1.29.50.1.16.x	Information about RAID controller bios version.	DisplayString	read-only
raidControllerDriverVersion	1.3.6.1.4.1.3902.2601.15.1.29.50.1.17.x	Information about RAID controller driver version.	DisplayString	read-only
raidControllerSerialNumber	1.3.6.1.4.1.3902.2601.15.1.29.50.1.18.x	Information about RAID controller serial number.	DisplayString	read-only
raidControllerSASAddress	1.3.6.1.4.1.3902.2601.15.1.29.50.1.19.x	Information about RAID controller sas address.	DisplayString	read-only
raidControllerPartNumber	1.3.6.1.4.1.3902.2601.15.1.29.50.1.20.x	Information about RAID controller part number.	DisplayString	read-only
raidControllerJBODEnable	1.3.6.1.4.1.3902.2601.15.1.29.50.1.21.x	Information about the JBOD state of RAID controller. • disabled(1) • enabled(2) • unknown(255)	Integer	read-only
raidControllerDeviceInterface	1.3.6.1.4.1.3902.2601.15.1.29.50.1.22.x	Information about RAID controller device interface type. • spi(1) • sas-3G(2)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• sata-1500M(3) • sata-3G(4) • sas-6G(5) • sas-12G(6) • sata-6G(7) • sas-24G(8) • unknown(255)		
raidController-MemorySizeInMiB	1.3.6.1.4.1.3902.2601.15.1.29.50.1.23.x	Information about RAID controller memory size (MB).	Integer	read-only
raidCon-trollerTempera-ture	1.3.6.1.4.1.3902.2601.15.1.29.50.1.24.x	Information about RAID controller temperature. unknown(255)	Integer	read-only
raidController-MinStripSupport-InBytes	1.3.6.1.4.1.3902.2601.15.1.29.50.1.25.x	Information about the minimum strip size that RAID controller support.	Integer	read-only
raidController-MaxStripSupport-InBytes	1.3.6.1.4.1.3902.2601.15.1.29.50.1.26.x	Information about the maximum strip size that RAID controller support.	Integer	read-only
raidControllerSup-portedRAIDLevels	1.3.6.1.4.1.3902.2601.15.1.29.50.1.27.x	Information about RAID controller supported levels.	DisplayString	read-only
raidCon-trollerSpotProto-cols	1.3.6.1.4.1.3902.2601.15.1.29.50.1.28.x	Information about RAID controller supported protocols.	DisplayString	read-only
raidControllerB-BUPresence	1.3.6.1.4.1.3902.2601.15.1.29.50.1.29.x	Information about RAID controller's BBU presence. • Absent(1) • Present(2) • Unknown(255)	Integer	read-only
raidControllerB-BUName	1.3.6.1.4.1.3902.2601.15.1.29.50.1.30.x	Information about RAID controller's BBU name.	DisplayString	read-only
raidControllerB-BUHealthStatus	1.3.6.1.4.1.3902.2601.15.1.29.50.1.31.x	Information about RAID controller's BBU health status. • ok(0) • minor(2) • major(3) • critical(4)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• unknown(255)		
raidControllerBBUAvailabilityStatus	1.3.6.1.4.1.3902.2601.15.1.29.50.1.32.x	Information about RAID controller's BBU availability status. • BBU is missing(0) • BBU is ready(1) • learn cycle active(2) • learn cycle failed(3) • BBU needs to be replaced(4) • reserved(others)	Integer	read-only
raidControllerBBUTemperature	1.3.6.1.4.1.3902.2601.15.1.29.50.1.33.x	Information about RAID controller's BBU temperature. unknown(255)	Integer	read-only
raidControllerBBUCurrent	1.3.6.1.4.1.3902.2601.15.1.29.50.1.34.x	Information about RAID controller's BBU current (mA).	Integer	read-only
raidControllerBBUVoltage	1.3.6.1.4.1.3902.2601.15.1.29.50.1.35.x	Information about RAID controller's BBU voltage (mV).	Integer	read-only

3.21.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.21.3 Constraints on Set Operations

The Set operation is not supported.

3.21.4 Example

```
***** SNMP QUERY STARTED *****
1: raidControllerIndex.1 (integer) 1
2: raidControllerId.1 (integer) 3
3: raidControllerName.1 (octet string) AVAGO MegaRAID SAS 9361-8i [41.56.41.47.4F.20.4D.65.
   67.61.52.41.49.44.20.53.41.53.20.39.33.36.31.2D.38.69  (hex)]
4: raidControllerComponentName.1 (octet string) RAID Card3 [52.41.49.44.20.43.61.72.64.33
   (hex)]
5: raidControllerMode.1 (integer) raid(1)
6: raidControllerLocationType.1 (integer) pcie(2)
7: raidControllerLocationSlot.1 (integer) 3
8: raidControllerVendor.1 (octet string) Broadcom [42.72.6F.61.64.63.6F.6D (hex)]
9: raidControllerChipVendor.1 (octet string) Broadcom [42.72.6F.61.64.63.6F.6D (hex)]
```

```
 10: raidControllerChipModel.1 (octet string) RAID_SAS3108 [52.41.49.44.5F.53.41.53.33.31.30.
   38 (hex)]
11: raidControllerHealthStatus.1 (integer) ok(0)
12: raidControllerSupportOOBManagement.1 (integer) yes(2)
13: raidControllerFwVersion.1 (octet string) 4.680.00-8392 [34.2E.36.38.30.2E.30.30.2D.38.33.
    39.32 (hex)]
14: raidControllerPackageVersion.1 (octet string) 24.21.0-0067 [32.34.2E.32.31.2E.30.2D.30.
    30.36.37 (hex)]
15: raidControllerNVDataVersion.1 (octet string) 3.1705.00-0016 [33.2E.31.37.30.35.2E.30.30.
    2D.30.30.31.36 (hex)]
16: raidControllerBiosVersion.1 (octet string) 6.36.00.3_4.19.08.00_0x06180203 [36.2E.33.36.
    2E.30.30.2E.33.5F.34.2E.31.39.2E.30.38.2E.30.30.5F.30.78.30.36.31.38.30.32.30.33 (hex)]
17: raidControllerDriverVersion.1 (octet string) N/A [4E.2F.41 (hex)]
18: raidControllerSerialNumber.1 (octet string) SKA2575807 [53.4B.41.32.35.37.35.38.30.37
    (hex)]
19: raidControllerSASAddress.1 (octet string) 500605b0127baf31 [35.30.30.36.30.35.62.30.31.
    32.37.62.61.66.33.31 (hex)]
20: raidControllerPartNumber.1 (octet string) N/A [4E.2F.41 (hex)]
21: raidControllerJBODEnable.1 (integer) disabled(1)
22: raidControllerDeviceInterface.1 (integer) sas-12G(6)
23: raidControllerMemorySizeInMiB.1 (integer) 2048
24: raidControllerTemperature.1 (integer) 50
25: raidControllerMinStripSupportInBytes.1 (integer) 65536
26: raidControllerMaxStripSupportInBytes.1 (integer) 1048576
27: raidControllerSupportedRAIDLevels.1 (octet string) RAID0, RAID1, RAID5, RAID6, RAID00,
    RAID10, RAID50, RAID60 [52.41.49.44.30.2C.20.52.41.49.44.31.2C.20.52.41.49.44.35.2C.20.
    52.41.49.44.36.2C.20.52.41.49.44.30.30.2C.20.52.41.49.44.31.30.2C.20.52.41.49.44.35.30.
    2C.20.52.41.49.44.36.30 (hex)]
28: raidControllerSupportedProtocols.1 (octet string) SAS,SATA [53.41.53.2C.53.41.54.41 (hex)]
29: raidControllerBBUPresence.1 (integer) absent(1)
30: raidControllerBBUName.1 (octet string) N/A [4E.2F.41 (hex)]
31: raidControllerBBUHealthStatus.1 (integer) unknown(255)
32: raidControllerBBUAvailabilityStatus.1 (integer) unknown(255)
33: raidControllerBBUTemperature.1 (integer) unknown(255)
34: raidControllerBBUCurrent.1 (integer) unknown(255)
35: raidControllerBBUVoltage.1 (integer) unknown(255)

***** SNMP QUERY FINISHED *****
```

3.22 hardDiskProperty

3.22.1 Function

Parent Node

The hardDiskProperty node contains both scalar objects and tabular objects.

- The scalar objects include the entire health status of the hard disks, maximum number of hard disks supported on the server, and number of present hard disks.
- The tabular objects in the hardDiskDescriptionTable table include the slot number, manufacturer, serial number, model, capacity, and status.
- The tabular objects in the hardDiskPresenceTable table include the slot number and presence status.

The OID of the hardDiskProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).hardDiskProperty(30)

Child Node

Scalar Objects

Object Name	OID	Description	Type	Permission
hardDiskEntireStatus	1.3.6.1.4.1.3902.2601.15.1.30.1	Information about all hard disk health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
hardDiskMaxSupportNum	1.3.6.1.4.1.3902.2601.15.1.30.2	Maximum number of hard disks supported. unknown(255)	Integer	read-only
hardDiskTotalPresentNum	1.3.6.1.4.1.3902.2601.15.1.30.3	Number of present hard disks. unknown(255)	Integer	read-only

Tabular Objects

The hardDiskDescriptionEntry node describes the tabular objects in the hardDiskDescriptionTable table. The OID of the hardDiskDescriptionEntry node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).hardDiskProperty(30).hardDiskDescriptionTable(50).hardDiskDescriptionEntry(1)

Note

x indicates the serial number of the hard disk.

Object Name	OID	Description	Type	Permission
hardDiskIndex	1.3.6.1.4.1.3902.2601.15.1.30.50.1.1.x	Hard disk index.	Integer	read-only
hardDiskLocation	1.3.6.1.4.1.3902.2601.15.1.30.50.1.2.x	Hard disk location slot. unknown(255)	Integer	read-only
hardDiskDevice-name	1.3.6.1.4.1.3902.2601.15.1.30.50.1.3.x	Hard disk device name.	DisplayString	read-only
hardDiskHealthS-tatus	1.3.6.1.4.1.3902.2601.15.1.30.50.1.4.x	Hard disk health status. ● ok(0) ● minor(2) ● major(3) ● critical(4) ● unknown(255)	Integer	read-only
hardDiskAvailabil-ityStatus	1.3.6.1.4.1.3902.2601.15.1.30.50.1.5.x	Hard disk availability status. ● unconfigured-good(0) ● unconfigured-bad(1) ● global-hot-spare(2) ● offline(4) ● failed(5) ● rebuild(6) ● online(7) ● copyback(8) ● jbod(9) ● unconfigured-shielded(10) ● hot-spare-shielded(11) ● configured-shielded(12) ● dedicated-hot-spare(13) ● foreign(14) ● unknown(255)	Integer	read-only
hardDiskManufac-turer	1.3.6.1.4.1.3902.2601.15.1.30.50.1.6.x	Hard disk manufacturer.	DisplayString	read-only

Object Name	OID	Description	Type	Permission
hardDiskModel-Number	1.3.6.1.4.1.3902.2601.15.1.30.50.1.7.x	Hard disk model number.	DisplayString	read-only
hardDiskSerial-Number	1.3.6.1.4.1.3902.2601.15.1.30.50.1.8.x	Hard disk serial number.	DisplayString	read-only
hardDiskFwVer-sion	1.3.6.1.4.1.3902.2601.15.1.30.50.1.9.x	Hard disk firmware version.	DisplayString	read-only
hardDiskSASAddr	1.3.6.1.4.1.3902.2601.15.1.30.50.1.10.x	Hard disk SAS address.	DisplayString	read-only
hardDiskMedi-aType	1.3.6.1.4.1.3902.2601.15.1.30.50.1.11.x	Hard disk media type. ● hdd(0) ● ssd(1) ● ssm(2) ● unknown(255)	Integer	read-only
hardDiskInter-faceType	1.3.6.1.4.1.3902.2601.15.1.30.50.1.12.x	Hard disk interface type. ● undefined(0) ● parallel-scsi(1) ● sas(2) ● sata(3) ● fiber-channel(4) ● pcie(5) ● nvme(6) ● unknown(255)	Integer	read-only
hardDiskCapaci-tyInGB	1.3.6.1.4.1.3902.2601.15.1.30.50.1.13.x	Hard disk capacity (GB).	Integer	read-only
hardDiskCapaci-tyInByte	1.3.6.1.4.1.3902.2601.15.1.30.50.1.14.x	Hard disk capacity (Byte).	Integer	read-only
hardDiskTemper-ature	1.3.6.1.4.1.3902.2601.15.1.30.50.1.15.x	Hard disk temperature (℃). unknown(255)	Integer	read-only
hardDiskPowerS-tate	1.3.6.1.4.1.3902.2601.15.1.30.50.1.16.x	Hard disk power state. ● spun-up(1) ● spun-down(2) ● transition(3)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• unknown(255)		
hardDiskCapableSpeed	1.3.6.1.4.1.3902.2601.15.1.30.50.1.17.x	Hard disk maximum supported speed. • speed1.5Gbps(1) • speed3Gbps(2) • speed6Gbps(3) • speed12Gbps(4) • speed24Gbps(5) • speed5GTps(6) • speed8GTps(7) • speed16GTps(8) • speed32GTps(9) • unknown(255)	Integer	read-only
hardDiskNegotiatedSpeed	1.3.6.1.4.1.3902.2601.15.1.30.50.1.18.x	Hard disk negotiated speed. • speed1.5Gbps(1) • speed3Gbps(2) • speed6Gbps(3) • speed12Gbps(4) • speed24Gbps(5) • speed5GTps(6) • speed8GTps(7) • speed16GTps(8) • speed32GTps(9) • unknown(255)	Integer	read-only
hardDiskRotateRate	1.3.6.1.4.1.3902.2601.15.1.30.50.1.19.x	Hard disk rotation rate. • speed5400RPM(0) • speed7200RPM(1) • speed10000RPM(2) • speed10025RPM(3) • speed15000RPM(4) • ssd(5) • speed10500RPM(6) • speed10520RPM(7) • speed15030RPM(8) • speed15052RPM(9) • unknown(255)	Integer	read-only
hardDiskSize	1.3.6.1.4.1.3902.2601.15.1.30.50.1.20.x	Hard disk size (inch). • size2.5(0) • size3.5(1) • unknown(255)	Integer	read-only

Object Name	OID	Description	Type	Permission
hardDiskSmartState	1.3.6.1.4.1.3902.2601.15.1.30.50.1.21.x	Hard disk smart state. ● unknown(0) ● detected(1) ● not-detected(2)	Integer	read-only
hardDiskPrefailState	1.3.6.1.4.1.3902.2601.15.1.30.50.1.22.x	Hard disk prefail state. ● no(1) ● yes(2) ● unknown(255)	Integer	read-only
hardDiskPrefailErrCount	1.3.6.1.4.1.3902.2601.15.1.30.50.1.23.x	Hard disk prefail error count. unknown(1048575)	Integer	read-only
hardDiskMediaErrCount	1.3.6.1.4.1.3902.2601.15.1.30.50.1.24.x	Hard disk media error count. unknown(1048575)	Integer	read-only
hardDiskOtherErrCount	1.3.6.1.4.1.3902.2601.15.1.30.50.1.25.x	Hard disk other error count. unknown(1048575)	Integer	read-only
hardDiskLocationState	1.3.6.1.4.1.3902.2601.15.1.30.50.1.26.x	Hard disk location led state. ● led-on(1) ● led-off(2) ● unknown(255)	Integer	read-only
hardDiskHotSpareState	1.3.6.1.4.1.3902.2601.15.1.30.50.1.27.x	Hard disk hot spare state. ● none(0) ● global(1) ● dedicated(2) ● unknown(255)	Integer	read-only
hardDiskRebuildProgress	1.3.6.1.4.1.3902.2601.15.1.30.50.1.28.x	Hard disk rebuild progress (0–100%). unknown(255)	Integer	read-only
hardDiskRemainLifetime	1.3.6.1.4.1.3902.2601.15.1.30.50.1.29.x	Hard disk remaining lifetime rate (0 – 100%) unknown(255)	Integer	read-only
pchHardDiskCPUNum	1.3.6.1.4.1.3902.2601.15.1.30.50.1.30.x	PCH disk CPU number. unknown(255)	Integer	read-only
pchHardDiskHBAPortNum	1.3.6.1.4.1.3902.2601.15.1.30.50.1.31.x	PCH disk HBA port number. unknown(255)	Integer	read-only

Object Name	OID	Description	Type	Permission
pchHard-DiskBDFNum	1.3.6.1.4.1.3902.2601.15.1.30.50.1.32.x	PCH disk BDF number.	DisplayString	read-only

The hardDiskPresenceEntry node describes the tabular objects in the hardDiskPresenceTable table. The OID of the hardDiskPresenceEntry node is as follows: iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).hardDiskProperty(30).hardDiskPresenceTable(51).hardDiskPresenceEntry(1)

Note

x indicates the serial number of the hard disk.

Object Name	OID	Description	Type	Permission
hardDiskLoca-tionSlot	1.3.6.1.4.1.3902.2601.15.1.30.51.1.1.x	Hard disk location slot.	Integer	read-only
hardDiskPres-enceStatus	1.3.6.1.4.1.3902.2601.15.1.30.51.1.2.x	Hard disk presence status. ● absence(1) ● presence(2) ● unknown(255)	Integer	read-only

3.22.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.22.3 Constraints on Set Operations

The Set operation is not supported.

3.22.4 Example

```
***** SNMP QUERY STARTED *****
1: hardDiskEntireStatus.0 (integer) unknown(255)
2: hardDiskMaxSupportNum.0 (integer) 25
3: hardDiskTotalPresentNum.0 (integer) 0
4: hardDiskLocationSlot.0 (integer) 0
5: hardDiskLocationSlot.1 (integer) 1
6: hardDiskLocationSlot.2 (integer) 2
7: hardDiskLocationSlot.3 (integer) 3
8: hardDiskLocationSlot.4 (integer) 4
9: hardDiskLocationSlot.5 (integer) 5
```

```
10: hardDiskLocationSlot.6 (integer) 6
11: hardDiskLocationSlot.7 (integer) 7
12: hardDiskLocationSlot.8 (integer) 8
13: hardDiskLocationSlot.9 (integer) 9
14: hardDiskLocationSlot.10 (integer) 10
15: hardDiskLocationSlot.11 (integer) 11
16: hardDiskLocationSlot.12 (integer) 12
17: hardDiskLocationSlot.13 (integer) 13
18: hardDiskLocationSlot.14 (integer) 14
19: hardDiskLocationSlot.15 (integer) 15
20: hardDiskLocationSlot.16 (integer) 16
21: hardDiskLocationSlot.17 (integer) 17
22: hardDiskLocationSlot.18 (integer) 18
23: hardDiskLocationSlot.19 (integer) 19
24: hardDiskLocationSlot.20 (integer) 20
25: hardDiskLocationSlot.21 (integer) 21
26: hardDiskLocationSlot.22 (integer) 22
27: hardDiskLocationSlot.23 (integer) 23
28: hardDiskLocationSlot.24 (integer) 24
29: hardDiskPresenceStatus.0 (integer) absence(1)
30: hardDiskPresenceStatus.1 (integer) absence(1)
31: hardDiskPresenceStatus.2 (integer) absence(1)
32: hardDiskPresenceStatus.3 (integer) absence(1)
33: hardDiskPresenceStatus.4 (integer) absence(1)
34: hardDiskPresenceStatus.5 (integer) absence(1)
35: hardDiskPresenceStatus.6 (integer) absence(1)
36: hardDiskPresenceStatus.7 (integer) absence(1)
37: hardDiskPresenceStatus.8 (integer) absence(1)
38: hardDiskPresenceStatus.9 (integer) absence(1)
39: hardDiskPresenceStatus.10 (integer) absence(1)
40: hardDiskPresenceStatus.11 (integer) absence(1)
41: hardDiskPresenceStatus.12 (integer) absence(1)
42: hardDiskPresenceStatus.13 (integer) absence(1)
43: hardDiskPresenceStatus.14 (integer) absence(1)
44: hardDiskPresenceStatus.15 (integer) absence(1)
45: hardDiskPresenceStatus.16 (integer) absence(1)
46: hardDiskPresenceStatus.17 (integer) absence(1)
```

```
47: hardDiskPresenceStatus.18 (integer) absence(1)
48: hardDiskPresenceStatus.19 (integer) absence(1)
49: hardDiskPresenceStatus.20 (integer) absence(1)
50: hardDiskPresenceStatus.21 (integer) absence(1)
51: hardDiskPresenceStatus.22 (integer) absence(1)
52: hardDiskPresenceStatus.23 (integer) absence(1)
53: hardDiskPresenceStatus.24 (integer) absence(1)
***** SNMP QUERY FINISHED *****
```

3.23 nvmeDeviceProperty

3.23.1 Function

Parent Node

The nvmeDeviceProperty node contains a nvmeDeviceDescriptionTable table, which include such tabular objects as slot number, device form, device name, manufacturer, model, serial number, capacity, firmware version, media type, interface type, and remaining life.
The OID of the nvmeDeviceProperty node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).nvmeDeviceProperty(31)

Child Node

Tabular Objects

The nvmeDeviceDescriptionEntry node describes the tabular objects in the nvmeDeviceDescriptionTable table. The OID of the nvmeDeviceDescriptionEntry node is as follows:
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).nvmeDeviceProperty(31).nvmeDeviceDescriptionTable(50).nvmeDeviceDescriptionEntry (1)

Note

x indicates the serial number of the NVMe device.

Object Name	OID	Description	Type	Permission
nvmeDeviceIndex	1.3.6.1.4.1.3902.2601.15.1.31.50.1.1.x	Information about NVMe device index.	Integer	read-only

Object Name	OID	Description	Type	Permission
nvmeDeviceLocation	1.3.6.1.4.1.3902.2601.15.1.31.50.1.2.x	Information about NVMe device location slot.	Integer	read-only
nvmeDeviceFormType	1.3.6.1.4.1.3902.2601.15.1.31.50.1.3.x	Information about NVMe device form type. ● u2(1) ● aic(2) ● m2(3) ● u3(4) ● Unknown(255)	Integer	read-only
nvmeDeviceName	1.3.6.1.4.1.3902.2601.15.1.31.50.1.4.x	Information about NVMe device name.	DisplayString	read-only
nvmeDeviceStatus	1.3.6.1.4.1.3902.2601.15.1.31.50.1.5.x	Information about NVMe device health status. ● OK(0) ● Minor(2) ● Major(3) ● Critical(4) ● Unknown(255)	Integer	read-only
nvmeDeviceManufacturer	1.3.6.1.4.1.3902.2601.15.1.31.50.1.6.x	Information about NVMe device manufacturer.	DisplayString	read-only
nvmeDeviceModelNumber	1.3.6.1.4.1.3902.2601.15.1.31.50.1.7.x	Information about NVMe device model number.	DisplayString	read-only
nvmeDeviceSerialNumber	1.3.6.1.4.1.3902.2601.15.1.31.50.1.8.x	Information about NVMe device serial number.	DisplayString	read-only
nvmeDevicePartNumber	1.3.6.1.4.1.3902.2601.15.1.31.50.1.9.x	Information about NVMe device part number.	DisplayString	read-only
nvmeDeviceFwVersion	1.3.6.1.4.1.3902.2601.15.1.31.50.1.10.x	Information about NVMe device firmware version.	DisplayString	read-only
nvmeDeviceMediaType	1.3.6.1.4.1.3902.2601.15.1.31.50.1.11.x	Information about NVMe device media type. ● SSD(1)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• Unknown(255)		
nvmeDeviceInterfaceType	1.3.6.1.4.1.3902.2601.15.1.31.50.1.12.x	Information about NVMe device interface type. • PCIe(5) • NVMe(6) • Unknown(255)	Integer	read-only
nvmeDeviceCapacityInGB	1.3.6.1.4.1.3902.2601.15.1.31.50.1.13.x	Information about NVMe device capacity (GB).	Integer	read-only
nvmeDeviceTemperature	1.3.6.1.4.1.3902.2601.15.1.31.50.1.14.x	Information about NVMe device temperature (℃). Unknown(255)	Integer	read-only
nvmeDeviceRemainLifetime	1.3.6.1.4.1.3902.2601.15.1.31.50.1.15.x	Information about NVMe device remaining lifetime rate (0-100%). Unknown(255)	Integer	read-only
nvmeDeviceCapacityInByte	1.3.6.1.4.1.3902.2601.15.1.31.50.1.16.x	Information about NVMe device capacity (Byte).	DisplayString	read-only
nvmeDeviceLocationState	1.3.6.1.4.1.3902.2601.15.1.31.50.1.17.x	NVME location led presence status.	Integer	read-only

3.23.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.23.3 Constraints on Set Operations

The Set operation is not supported.

3.23.4 Example

```
***** SNMP QUERY STARTED *****
1: nvmeDeviceIndex.1 (integer) 1
2: nvmeDeviceIndex.2 (integer) 2
3: nvmeDeviceLocation.1 (integer) 0
4: nvmeDeviceLocation.2 (integer) 6
5: nvmeDeviceFormType.1 (integer) type-u2(1)
6: nvmeDeviceFormType.2 (integer) type-u2(1)
7: nvmeDeviceName.1 (octet string) Disk0 [44.69.73.6B.30 (hex)]
```

```
8: nvmeDeviceName.2 (octet string) Disk6 [44.69.73.6B.36 (hex)]
9: nvmeDeviceStatus.1 (integer) critical(4)
10: nvmeDeviceStatus.2 (integer) critical(4)
11: nvmeDeviceManufacturer.1 (octet string) Intel [49.6E.74.65.6C (hex)]
12: nvmeDeviceManufacturer.2 (octet string) Intel [49.6E.74.65.6C (hex)]
13: nvmeDeviceModelNumber.1 (octet string) INTEL SSDPE2KE016T8 [49.4E.54.45.4C.20.53.53.44.
    50.45.32.4B.45.30.31.36.54.38 (hex)]
14: nvmeDeviceModelNumber.2 (octet string) INTEL SSDPE2KE016T8 [49.4E.54.45.4C.20.53.53.44.
    50.45.32.4B.45.30.31.36.54.38 (hex)]
15: nvmeDeviceSerialNumber.1 (octet string) BTLN143106LR1P6AGN [42.54.4C.4E.31.34.33.31.30.
    36.4C.52.31.50.36.41.47.4E (hex)]
16: nvmeDeviceSerialNumber.2 (octet string) BTLN143106071P6AGN [42.54.4C.4E.31.34.33.31.30.
    36.30.37.31.50.36.41.47.4E (hex)]
17: nvmeDevicePartNumber.1 (octet string) N/A [4E.2F.41 (hex)]
18: nvmeDevicePartNumber.2 (octet string) N/A [4E.2F.41 (hex)]
19: nvmeDeviceFwVersion.1 (octet string) N/A [4E.2F.41 (hex)]
20: nvmeDeviceFwVersion.2 (octet string) N/A [4E.2F.41 (hex)]
21: nvmeDeviceMediaType.1 (integer) ssd(1)
22: nvmeDeviceMediaType.2 (integer) ssd(1)
23: nvmeDeviceInterfaceType.1 (integer) pcie(5)
24: nvmeDeviceInterfaceType.2 (integer) pcie(5)
25: nvmeDeviceCapacityInGB.1 (integer) 1600
26: nvmeDeviceCapacityInGB.2 (integer) 1600
27: nvmeDeviceTemperature.1 (integer) 255
28: nvmeDeviceTemperature.2 (integer) 255
29: nvmeDeviceRemainLifetime.1 (integer) unknown(255)
30: nvmeDeviceRemainLifetime.2 (integer) unknown(255)
31: nvmeDeviceDescriptionEntry.16.1 (octet string) 1600321314816
32: nvmeDeviceDescriptionEntry.16.2 (octet string) 1600321314816
***** SNMP QUERY FINISHED *****
```

3.24 logicalDeviceProperty

3.24.1 Function

Parent Node

The logicalDeviceProperty node contains a logicalDriveDescriptionTable table, which includes such tabular objects as RAID level, status, read/write policy, logical drive size, strip size, consistency, and parity check.

The OID of the logicalDriveProperty node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoB MC(1).logicalDriveProperty(32)

Child Node

Tabular Objects

The logicalDriveDescriptionEntry node describes the tabular objects in the logicalDriveDescriptionTable table. The OID of the logicalDriveDescriptionEntry node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).vantageo(3902).ssp(2601).vantageoServer(15).vantageoBMC(1).logicalDriveProperty(32).logicalDriveDescriptionTable(50).logicalDriveDescriptionEntry(1)

Note

x indicates the serial number of the logical drive.

Object Name	OID	Description	Type	Permission
logicalDriveRAID-ControllerIndex	1.3.6.1.4.1.3902.2601.15.1.32.50.1.1.x	Information about RAID controller index to which this logical drive belongs.	Integer	read-only
logicalDriveIndex	1.3.6.1.4.1.3902.2601.15.1.32.50.1.2.x	Information about logical drive index in current RAID controller.	Integer	read-only
logicalDriveName	1.3.6.1.4.1.3902.2601.15.1.32.50.1.3.x	Information about logical drive name.	DisplayString	read-only
logicalDriveId	1.3.6.1.4.1.3902.2601.15.1.32.50.1.4.x	Information about logical drive ID.	Integer	read-only
logicalDriveRAIDLevel	1.3.6.1.4.1.3902.2601.15.1.32.50.1.5.x	Information about logical drive level. ● raid0(0) ● raid1(1)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• raid5(2) • raid6(3) • raidIE(4) • raid00(5) • raid10(6) • raid50(7) • raid60(8) • unknown(255)		
logicalDrive-HealthState	1.3.6.1.4.1.3902.2601.15.1.32.50.1.6.x	Information about logical drive health status. • ok(0) • minor(2) • major(3) • critical(4) • unknown(255)	Integer	read-only
logicalDriveAvail-abilityState	1.3.6.1.4.1.3902.2601.15.1.32.50.1.7.x	Information about logical drive avail-ability status. • offline(0) • part-degraded(1) • degraded(2) • optimal(3) • unknown(255)	Integer	read-only
logi-calDriveSizeInGB	1.3.6.1.4.1.3902.2601.15.1.32.50.1.8.x	Information about logical drive size (unit: GB).	Integer	read-only
logicalDriveDe-faultReadPolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.9.x	Information about logical drive de-fault read policy. • no-read-ahead(0) • read-ahead(1) • unknown(255)	Integer	read-only
logicalDriveDe-faultWritePolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.10.x	Information about logical drive de-fault write policy. • write-through(0) • write-back-with-bbu(1) • write-back(2) • unknown(255)	Integer	read-only
logicalDriveDe-faultIOPolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.11.x	Information about logical drive de-fault IO policy. • cached-IO(0) • direct-IO(1)	Integer	read-only

Object Name	OID	Description	Type	Permission
		• unknown(255)		
logicalDriveCurrentReadPolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.12.x	Information about logical drive read policy. • no-read-ahead(0) • read-ahead(1) • unknown(255)	Integer	read-only
logicalDriveCurrentWritePolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.13.x	Information about logical drive write policy. • write-through(0) • always-write-back(1) • write-back(2) • unknown(255)	Integer	read-only
logicalDriveCurrentIOPolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.14.x	Information about logical drive IO policy. • cached-IO(0) • direct-IO(1) • unknown(255)	Integer	read-only
logicalDriveSpanDepth	1.3.6.1.4.1.3902.2601.15.1.32.50.1.15.x	Information about logical drive span depth. unknown(255)	Integer	read-only
logicalDriveNumDrivePerSpan	1.3.6.1.4.1.3902.2601.15.1.32.50.1.16.x	Information about logical drive number of drives per span. unknown(255)	Integer	read-only
logicalDriveStripeSizeInBytes	1.3.6.1.4.1.3902.2601.15.1.32.50.1.17.x	Information about logical drive stripe size in bytes.	Integer	read-only
logicalDriveDiskCachePolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.18.x	Information about logical drive disk cache policy. • unchanged(0) • enabled(1) • disabled(2) • unknown(255)	Integer	read-only
logicalDriveAccessPolicy	1.3.6.1.4.1.3902.2601.15.1.32.50.1.19.x	Information about logical drive access policy. • read-write(0) • read-only(1) • blocked(2) • hidden(3) • unknown(255)	Integer	read-only

Object Name	OID	Description	Type	Permission
logicalDriveInitS-tate	1.3.6.1.4.1.3902.2601.15.1.32.50.1.20.x	Information about logical drive init state. ● no-init(0) ● quick-init(1) ● full-init(2) ● unknown(255)	Integer	read-only
logicalDrive-BGIEnable	1.3.6.1.4.1.3902.2601.15.1.32.50.1.21.x	Information about logical drive BGI state. ● disabled(1) ● enabled(2) ● unknown(255)	Integer	read-only
logicalDriveCon-sistencyCheckS-tatus	1.3.6.1.4.1.3902.2601.15.1.32.50.1.22.x	Information about logical drive con-sistency check status. ● stopped(0) ● in-progress(1) ● unknown(255)	Integer	read-only
logicalDriveMem-bersNumber	1.3.6.1.4.1.3902.2601.15.1.32.50.1.23.x	Information about logical drive members number.	Integer	read-only
logicalDriveMem-berList	1.3.6.1.4.1.3902.2601.15.1.32.50.1.24.x	Information about logical drive members list, for example, 1,2,3,4.	DisplayString	read-only
logicalDriveCon-trollerOwnership	1.3.6.1.4.1.3902.2601.15.1.32.50.1.25.x	Information about RAID controller name to which this logical drive be-longs. The value such as 'AVAGO MegaRAID SAS 9361-8i(1)', 1 is raid card pcie slot.	DisplayString	read-only

3.24.2 Constraints on Query Operations

The Get, Walk, GetNext, and GetBulk operations are supported.

3.24.3 Constraints on Set Operations

The Set operation is not supported.

3.24.4 Example

```
***** SNMP QUERY STARTED *****
1: logicalDriveRAIDControllerIndex.1.1 (integer) 1
2: logicalDriveIndex.1.1 (integer) 1
```

```
3: logicalDriveName.1.1 (octet string) (zero-length)
4: logicalDriveId.1.1 (integer) 0
5: logicalDriveRAIDLevel.1.1 (integer) raid1(1)
6: logicalDriveHealthState.1.1 (integer) ok(0)
7: logicalDriveAvailabilityState.1.1 (integer) optimal(3)
8: logicalDriveSizeInGB.1.1 (integer) 5588
9: logicalDriveDefaultReadPolicy.1.1 (integer) read-ahead(1)
10: logicalDriveDefaultWritePolicy.1.1 (integer) write-back-with-bbu(1)
11: logicalDriveDefaultIOPolicy.1.1 (integer) direct-IO(1)
12: logicalDriveCurrentReadPolicy.1.1 (integer) read-ahead(1)
13: logicalDriveCurrentWritePolicy.1.1 (integer) write-through(0)
14: logicalDriveCurrentIOPolicy.1.1 (integer) direct-IO(1)
15: logicalDriveSpanDepth.1.1 (integer) 1
16: logicalDriveNumDrivePerSpan.1.1 (integer) 2
17: logicalDriveStripeSizeInBytes.1.1 (integer) 262144
18: logicalDriveDiskCachePolicy.1.1 (integer) disk-default(0)
19: logicalDriveAccessPolicy.1.1 (integer) read-write(0)
20: logicalDriveInitState.1.1 (integer) no-init(0)
21: logicalDriveBGIEnable.1.1 (integer) enabled(2)
22: logicalDriveConsistencyCheckStatus.1.1 (integer) stopped(0)
23: logicalDriveMembersNumber.1.1 (integer) 2
24: logicalDriveMemberList.1.1 (octet string) 12,14 [31.32.2C.31.34 (hex)]
25: logicalDriveControllerOwnership.1.1 (octet string) AVAGO MegaRAID SAS 9361-8i(PCIe3)
    [41.56.41.47.4F.20.4D.65.67.61.52.41.49.44.20.53.41.53.20.39.33.36.31.2D.38.69.28.50.
     43.49.65.33.29 (hex)]
***** SNMP QUERY FINISHED *****
```

Chapter 4
Detailed Descriptions of Traps in OID Mode

Table of Contents

For the VANTAGEO server–specific SNMP traps in OID mode, refer to Table 4-1.

Table 4-1 Descriptions of SNMP Traps in OID Mode

Node OID	Object Name	Child Node Name
3	1.3.6.1.4.1.3902.2601.15.1.500.2.3.x	CPU alarm trap (vantageoTrapCPUEvent)
4	1.3.6.1.4.1.3902.2601.15.1.500.2.4.x	Disk bay alarm trap (vantageoTrapDiskBayEvent)
7	1.3.6.1.4.1.3902.2601.15.1.500.2.7.x	System board alarm trap (vantageoTrapSystemBoardEvent)
10	1.3.6.1.4.1.3902.2601.15.1.500.2.10.x	PSU alarm trap (vantageoTrapPSUEvent)
11	1.3.6.1.4.1.3902.2601.15.1.500.2.11.x	PCIe card alarm trap (vantageoTrapPCIeCardEvent)
26	1.3.6.1.4.1.3902.2601.15.1.500.2.26.x	Hard disk alarm trap (vantageoTrapDiskEvent)
29	1.3.6.1.4.1.3902.2601.15.1.500.2.29.x	Fan alarm trap (vantageoTrapFANEvent)
30	1.3.6.1.4.1.3902.2601.15.1.500.2.30.x	Cooling unit alarm trap (vantageoTrapCoolingUnitEvent)
32	1.3.6.1.4.1.3902.2601.15.1.500.2.32.x	Memory alarm trap (vantageoTrapMemoryEvent)
34	1.3.6.1.4.1.3902.2601.15.1.500.2.34.x	BIOS alarm trap (vantageoTrapBiosSystemEvent)
35	1.3.6.1.4.1.3902.2601.15.1.500.2.35.x	Operating system alarm trap (vantageoTrapOperationSystemEvent)
42	1.3.6.1.4.1.3902.2601.15.1.500.2.42.x	Network connection alarm trap (vantageoTrapNetworkConnectionEvent)
46	1.3.6.1.4.1.3902.2601.15.1.500.2.46.x	BMC event alarm trap (vantageoTrapBMCEvent)
48	1.3.6.1.4.1.3902.2601.15.1.500.2.48.x	PCI bus alarm trap (vantageoTrapPCIBusEvent)
55	1.3.6.1.4.1.3902.2601.15.1.500.2.55.x	Ventilation alarm trap (vantageoTrapAirInletEvent)
56	1.3.6.1.4.1.3902.2601.15.1.500.2.56.x	System firmware alarm trap (vantageoTrapSystemFirmwareEvent)
144	1.3.6.1.4.1.3902.2601.15.1.500.2.144.x	Mounting lug alarm trap (vantageoTrapMountingEarEvent)
145	1.3.6.1.4.1.3902.2601.15.1.500.2.145.x	RAID controller card alarm trap (vantageoTrapRaidCardEvent)
146	1.3.6.1.4.1.3902.2601.15.1.500.2.146.x	PCIe NIC alarm trap (vantageoTrapPCIeNetCardEvent)
150	1.3.6.1.4.1.3902.2601.15.1.500.2.150.x	Onboard NIC alarm trap（vantageoTrapOnboardNetCardEvent）
151	1.3.6.1.4.1.3902.2601.15.1.500.2.151.x	OCP NIC alarm trap (vantageoTrapOCPNetCardEvent)

Node OID	Object Name	Child Node Name
152	1.3.6.1.4.1.3902.2601.15.1.500.2.152.x	Environment humidity alarm trap (vantageoTrapEN- VHUMIEvent)
160	1.3.6.1.4.1.3902.2601.15.1.500.2.160.x	Mainboard alarm trap (vantageoTrapMainBoardEvent)
224	1.3.6.1.4.1.3902.2601.15.1.500.2.224.x	GPU baseboard alarm trap (vantageoTrapGPU-UBBEvent)
225	1.3.6.1.4.1.3902.2601.15.1.500.2.225.x	Acceleration card alarm trap (vantageoTrapAccelera- tionCardEvent)
226	1.3.6.1.4.1.3902.2601.15.1.500.2.226.x	GPU baseboard optical module alarm trap (vantageoTrapGPUUBBOPTEvent)
254	1.3.6.1.4.1.3902.2601.15.1.500.2.254.x	Trap test (vantageoTrapTrapTestEvent)

Note

x represents the OID of a specific alarm Trap.

For a description of the variables bound to each trap OID, refer to Table 4-2.

Table 4-2 Trap OID Variable Binding Table

Name	Description	Type	Setting	Default OID
vantageoTrapSeq	Trap Seqence No.	Un-signed32	Numbered from 1	1.3.6.1.4.1.3902.2601.15.1.500.1.1
vantageoTrapTime	Trap Time	String	YYYY-MM-DDT hh:mm:ss	1.3.6.1.4.1.3902.2601.15.1.500.1.2
vantageoTrapEntity	Trap Entity	String	Entity type + entity instance ID, for ex-ample, PSU1 and FAN2.	1.3.6.1.4.1.3902.2601.15.1.500.1.3
vantageoTrapSensorName	Trap Sensor Name	String	Event of SEL type, which needs to be transferred by the event management module. For oth-er types of events, the value can be left blank.	1.3.6.1.4.1.3902.2601.15.1.500.1.4
vantageoTrapSeverity	Trap Severity	Integer	• ok(0) • inform(1) • warning(2) • major(3)	1.3.6.1.4.1.3902.2601.15.1.500.1.5

Name	Description	Type	Setting	Default OID
			• critical(4)	
vantageoTrapDescription	Trap Description	String	Description field reported by the service module	1.3.6.1.4.1.3902.2601.15.1.500.1.6
vantageoTrapIdentifier	Trap Identifier	String	-	1.3.6.1.4.1.3902.2601.15.1.500.1.7
vantageoTrapStatus	Trap Status	Integer	• assert(0) • deassert(1)	1.3.6.1.4.1.3902.2601.15.1.500.1.8
vantageoTrapEntitySN	Trap Entity Serial Number	String	-	1.3.6.1.4.1.3902.2601.15.1.500.1.9
vantageoTrapAddInfo	Trap Add Infomation	String	-	1.3.6.1.4.1.3902.2601.15.1.500.1.10

4.1 CPU Alarm Traps

For a detailed description of the CPU alarm traps, refer to Table 4-3.

Table 4-3 CPU Alarm Trap Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
18	1.3.6.1.4.1.3902.2601.15.1.500.2.3.18	Shutdown due to high CPU temperature
19	1.3.6.1.4.1.3902.2601.15.1.500.2.3.19	CPU usage exceeds threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.3.65799	CPU temp above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.3.65801	CPU temp above upper major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.3.65803	CPU temp above upper critical threshold
66048	1.3.6.1.4.1.3902.2601.15.1.500.2.3.66048	CPU voltage below lower minor threshold
66050	1.3.6.1.4.1.3902.2601.15.1.500.2.3.66050	CPU voltage below lower major threshold
66052	1.3.6.1.4.1.3902.2601.15.1.500.2.3.66052	CPU voltage below lower critical threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
66055	1.3.6.1.4.1.3902.2601.15.1.500.2.3.66055	CPU voltage above upper minor threshold
66057	1.3.6.1.4.1.3902.2601.15.1.500.2.3.66057	CPU voltage above upper major threshold
66059	1.3.6.1.4.1.3902.2601.15.1.500.2.3.66059	CPU voltage above upper critical threshold
198401	1.3.6.1.4.1.3902.2601.15.1.500.2.3.198401	CPU state asserted
7276288	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276288	CPU IERR
7276289	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276289	CPU Thermal Trip
7276290	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276290	CPU FRB1/BIST failure
7276291	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276291	CPU FRB2/Hang in POST failure
7276292	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276292	CPU FRB3/Processor Start-up/Initialization failure
7276293	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276293	CPU configuration error
7276296	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276296	CPU Processor disabled
7276298	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276298	CPU Processor Automatically Throttled
7276299	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276299	CPU Machine Check Exception
7276300	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276300	CPU Correctable Machine Check Error
7276301	1.3.6.1.4.1.3902.2601.15.1.500.2.3.7276301	CPU system has a catastrophic error
8388627	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8388627	CPU usage exceeds threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454407	CPU temp above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454409	CPU temp above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454411	CPU temp above upper critical threshold deassert

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
8454656	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454656	CPU voltage below lower minor threshold deassert
8454658	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454658	CPU voltage below lower major threshold deassert
8454660	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454660	CPU voltage below lower critical threshold deassert
8454663	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454663	CPU voltage above upper minor threshold deassert
8454665	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454665	CPU voltage above upper major threshold deassert
8454667	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8454667	CPU voltage above upper critical threshold deassert
8587009	1.3.6.1.4.1.3902.2601.15.1.500.2.3.8587009	CPU State asserted deassert
15664896	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664896	CPU IERR deassert
15664897	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664897	CPU Thermal Trip deassert
15664898	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664898	CPU FRB1/BIST failure deassert
15664899	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664899	CPU FRB2/Hang in POST failure deassert
15664900	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664900	CPU FRB3/Processor Start-up/Initialization failure deassert
15664901	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664901	CPU configuration error deassert
15664904	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664904	CPU Processor disabled deassert
15664906	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664906	CPU Processor Automatically Throttled deassert
15664907	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664907	CPU Machine Check Exception deassert
15664908	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664908	CPU Correctable Machine Check Error deassert
15664909	1.3.6.1.4.1.3902.2601.15.1.500.2.3.15664909	CPU system has a catastrophic error deassert

4.2 Disk Bay Alarm Traps

For a detailed description of the disk bay alarm traps, refer to Table 4-4.

Table 4-4 Descriptions of the Disk Bay Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.4.65799	The disk temp above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.4.65801	The disk temp above upper major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.4.65803	The disk temp above upper critical threshold
7277824	1.3.6.1.4.1.3902.2601.15.1.500.2.4.7277824	The disk installed
7277825	1.3.6.1.4.1.3902.2601.15.1.500.2.4.7277825	Drive fault
7277826	1.3.6.1.4.1.3902.2601.15.1.500.2.4.7277826	Drive predictive failure
7277829	1.3.6.1.4.1.3902.2601.15.1.500.2.4.7277829	Drive in critical array
7277830	1.3.6.1.4.1.3902.2601.15.1.500.2.4.7277830	Drive in failed array
7277838	1.3.6.1.4.1.3902.2601.15.1.500.2.4.7277838	Hard disk remnant life is low
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.4.8454407	The disk temp above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.4.8454409	The disk temp above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.4.8454411	The disk temp above upper critical threshold deassert
15666432	1.3.6.1.4.1.3902.2601.15.1.500.2.4.15666432	The disk removed
15666433	1.3.6.1.4.1.3902.2601.15.1.500.2.4.15666433	Drive fault deassert
15666434	1.3.6.1.4.1.3902.2601.15.1.500.2.4.15666434	Drive predictive failure deassert
15666437	1.3.6.1.4.1.3902.2601.15.1.500.2.4.15666437	Drive in critical array deassert
15666438	1.3.6.1.4.1.3902.2601.15.1.500.2.4.15666438	Drive in failed array deassert
15666446	1.3.6.1.4.1.3902.2601.15.1.500.2.4.15666446	Hard disk remnant life is low deassert

4.3 System Board Alarm Traps

For a detailed description of the system board alarm traps, refer to Table 4-5.

Table 4-5 Descriptions of the System Board Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.7.65799	Bridge chip temperature above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.7.65801	Bridge chip temperature above upper major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.7.65803	Bridge chip temperature above upper critical threshold
464134	1.3.6.1.4.1.3902.2601.15.1.500.2.7.464134	System Transition to Non-re-coverable
465153	1.3.6.1.4.1.3902.2601.15.1.500.2.7.465153	ME Transition to Non-critical from OK
7275776	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7275776	Chassis cover opened
7278336	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7278336	System firmware error
7278337	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7278337	System firmware hang
7278594	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7278594	Log area reset/cleared
7278595	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7278595	All event logging disabled
7278596	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7278596	SEL full
7279106	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7279106	Undetermined system hard-ware failure
7279616	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7279616	Power Button pressed
7279618	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7279618	Reset Button pressed
7281920	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7281920	Initiated by power up
7281921	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7281921	Initiated by hard reset
7281922	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7281922	Initiated by warm reset
7281923	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7281923	User requested PXE boot
7282691	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7282691	OS Graceful Shutdown
7283200	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283200	S0 / G0 "working"
7283205	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283205	S5 / G2 "soft-off"
7283214	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283214	Unknown
7283456	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283456	Watchdog Overflow: No Action

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
7283457	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283457	Watchdog Overflow: Hard Reset
7283458	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283458	Watchdog Overflow: Power Down
7283459	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283459	Watchdog Overflow: Power Cycle
7283464	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7283464	Watchdog Overflow: Timer interrupt
7284993	1.3.6.1.4.1.3902.2601.15.1.500.2.7.7284993	Battery failed
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.7.8454407	Bridge chip temperature above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.7.8454409	Bridge chip temperature above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.7.8454411	Bridge chip temperature above upper critical threshold deassert
8852742	1.3.6.1.4.1.3902.2601.15.1.500.2.7.8852742	System Transition to Non-recoverable deassert
8853761	1.3.6.1.4.1.3902.2601.15.1.500.2.7.8853761	ME Transition to Non-critical from OK deassert
15664384	1.3.6.1.4.1.3902.2601.15.1.500.2.7.15664384	Chassis cover opened deassert

4.4 PSU Alarm Traps

For a detailed description of the PSU alarm traps, refer to Table 4-6.

Table 4-6 PSU Alarm Trap Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
17	1.3.6.1.4.1.3902.2601.15.1.500.2.10.17	Power supply input undervoltage fault
18	1.3.6.1.4.1.3902.2601.15.1.500.2.10.18	Power supply input undervoltage warning
19	1.3.6.1.4.1.3902.2601.15.1.500.2.10.19	Power supply input overvoltage fault

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
20	1.3.6.1.4.1.3902.2601.15.1.500.2.10.20	Power supply input overvoltage warning
21	1.3.6.1.4.1.3902.2601.15.1.500.2.10.21	Power supply output undervoltage fault
22	1.3.6.1.4.1.3902.2601.15.1.500.2.10.22	Power supply output undervoltage warning
23	1.3.6.1.4.1.3902.2601.15.1.500.2.10.23	Power supply output overvoltage fault
24	1.3.6.1.4.1.3902.2601.15.1.500.2.10.24	Power supply output overvoltage warning
25	1.3.6.1.4.1.3902.2601.15.1.500.2.10.25	Power supply output undercurrent fault
26	1.3.6.1.4.1.3902.2601.15.1.500.2.10.26	Power supply output overcurrent fault
27	1.3.6.1.4.1.3902.2601.15.1.500.2.10.27	Power supply output overcurrent warning
28	1.3.6.1.4.1.3902.2601.15.1.500.2.10.28	Power supply overtemperature fault
29	1.3.6.1.4.1.3902.2601.15.1.500.2.10.29	Power supply overtemperature warning
30	1.3.6.1.4.1.3902.2601.15.1.500.2.10.30	Power supply fan1 fault
31	1.3.6.1.4.1.3902.2601.15.1.500.2.10.31	Power supply fan1 warning
32	1.3.6.1.4.1.3902.2601.15.1.500.2.10.32	Power supply fan2 fault
33	1.3.6.1.4.1.3902.2601.15.1.500.2.10.33	Power supply fan2 warning
34	1.3.6.1.4.1.3902.2601.15.1.500.2.10.34	Power of the system exceeds the alarm threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.10.65799	PSU temp above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.10.65801	PSU temp above upper major threshold
66050	1.3.6.1.4.1.3902.2601.15.1.500.2.10.66050	PSU temp aelow lower major threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
66057	1.3.6.1.4.1.3902.2601.15.1.500.2.10.66057	PSU voltage above upper major threshold
198913	1.3.6.1.4.1.3902.2601.15.1.500.2.10.198913	State Asserted
263169	1.3.6.1.4.1.3902.2601.15.1.500.2.10.263169	PSU fan Predictive failure asserted
722945	1.3.6.1.4.1.3902.2601.15.1.500.2.10.722945	PSU Redundancy Lost
7276544	1.3.6.1.4.1.3902.2601.15.1.500.2.10.7276544	PSU installed
7276545	1.3.6.1.4.1.3902.2601.15.1.500.2.10.7276545	Power supply failure detected
7276546	1.3.6.1.4.1.3902.2601.15.1.500.2.10.7276546	Power supply predictive failure
7276547	1.3.6.1.4.1.3902.2601.15.1.500.2.10.7276547	Power supply input lost(AC/DC)
7276548	1.3.6.1.4.1.3902.2601.15.1.500.2.10.7276548	Power supply input lost or out-of-range
7276550	1.3.6.1.4.1.3902.2601.15.1.500.2.10.7276550	Power supply configuration error
8388625	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388625	Power supply input undervoltage fault deassert
8388626	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388626	Power supply input undervoltage warning deassert
8388627	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388627	Power supply input overvoltage fault deassert
8388628	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388628	Power supply input overvoltage warning deassert
8388629	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388629	Power supply output undervoltage fault deassert
8388630	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388630	Power supply output undervoltage warning deassert
8388631	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388631	Power supply output overvoltage fault deassert
8388632	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388632	Power supply output overvoltage warning deassert
8388633	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388633	Power supply output undercurrent fault deassert

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
8388634	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388634	Power supply output overcurrent fault deassert
8388635	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388635	Power supply output overcurrent warning deassert
8388636	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388636	Power supply overtemperature fault deassert
8388637	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388637	Power supply overtemperature warning deassert
8388638	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388638	Power supply fan1 fault deassert
8388639	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388639	Power supply fan1 warning deassert
8388640	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388640	Power supply fan2 fault deassert
8388641	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388641	Power supply fan2 warning deassert
8388642	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8388642	Power of the system exceeds the alarm threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8454407	PSU temp above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8454409	PSU temp above upper major threshold deassert
8454658	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8454658	PSU voltage below lower major threshold deassert
8454665	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8454665	PSU voltage above upper major threshold deassert
8587521	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8587521	State Asserted deassert
8651777	1.3.6.1.4.1.3902.2601.15.1.500.2.10.8651777	PSU fan Predictive failure asserted deassert
9111553	1.3.6.1.4.1.3902.2601.15.1.500.2.10.9111553	PSU Redundancy Lost deassert
15665152	1.3.6.1.4.1.3902.2601.15.1.500.2.10.15665152	PSU removed

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
15665153	1.3.6.1.4.1.3902.2601.15.1.500.2.10.15665153	Power supply failure detected deassert
15665154	1.3.6.1.4.1.3902.2601.15.1.500.2.10.15665154	Power supply predictive failure deassert
15665155	1.3.6.1.4.1.3902.2601.15.1.500.2.10.15665155	Power supply input lost(AC/ DC) deassert
15665156	1.3.6.1.4.1.3902.2601.15.1.500.2.10.15665156	Power supply input lost or out-ofrange deassert
15665158	1.3.6.1.4.1.3902.2601.15.1.500.2.10.15665158	Power supply configuration er-ror deassert

4.5 PCIe Card Alarm Traps

For a detailed description of the PCIe card alarm traps, refer to Table 4-7.

Table 4-7 Descriptions of the PCIe Card Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65792	1.3.6.1.4.1.3902.2601.15.1.500.2.11.65792	Temp below lower minor threshold
65794	1.3.6.1.4.1.3902.2601.15.1.500.2.11.65794	Temp below lower major threshold
65796	1.3.6.1.4.1.3902.2601.15.1.500.2.11.65796	Temp below lower critical threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.11.65799	Temp above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.11.65801	Temp above upper major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.11.65803	Temp above upper critical threshold
66048	1.3.6.1.4.1.3902.2601.15.1.500.2.11.66048	Voltage below lower minor threshold
66055	1.3.6.1.4.1.3902.2601.15.1.500.2.11.66055	Voltage above upper minor threshold
66313	1.3.6.1.4.1.3902.2601.15.1.500.2.11.66313	Voltage above upper critical threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
8454400	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454400	Temp below lower minor threshold deassert
8454402	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454402	Temp below lower major threshold deassert
8454404	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454404	Temp below lower critical threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454407	Temp above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454409	Temp above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454411	Temp above upper critical threshold deassert
8454656	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454656	Voltage below lower minor threshold deassert
8454663	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454663	Voltage above upper minor threshold deassert
8454921	1.3.6.1.4.1.3902.2601.15.1.500.2.11.8454921	Voltage above upper critical threshold deassert

4.6 Hard Disk Alarm Traps

For a detailed description of the hard disk alarm traps, refer to Table 4-8.

Table 4-8 Descriptions of the Hard Disk Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
19	1.3.6.1.4.1.3902.2601.15.1.500.2.26.19	Hard Disk's SMART status is abnormal
20	1.3.6.1.4.1.3902.2601.15.1.500.2.26.20	Above upper major threshold
21	1.3.6.1.4.1.3902.2601.15.1.500.2.26.21	Hard disk remnant life is low
22	1.3.6.1.4.1.3902.2601.15.1.500.2.26.22	Hard disk is missing
23	1.3.6.1.4.1.3902.2601.15.1.500.2.26.23	Hard disk has foreign configu-ration
24	1.3.6.1.4.1.3902.2601.15.1.500.2.26.24	Hard disk is failure
25	1.3.6.1.4.1.3902.2601.15.1.500.2.26.25	Above upper critical threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
26	1.3.6.1.4.1.3902.2601.15.1.500.2.26.26	Hard disk usage exceeds threshold
129	1.3.6.1.4.1.3902.2601.15.1.500.2.26.129	Hard disk RAID array is part degraded
130	1.3.6.1.4.1.3902.2601.15.1.500.2.26.130	Hard disk RAID array is degraded
131	1.3.6.1.4.1.3902.2601.15.1.500.2.26.131	Hard disk RAID array is offline
8388627	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388627	Hard Disks SMART status is abnormal deassert
8388628	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388628	Above upper major threshold deassert
8388629	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388629	Hard disk remnant life is low deassert
8388630	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388630	Hard disk is missing deassert
8388631	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388631	Hard disk has foreign configuration deassert
8388632	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388632	Hard disk is failure deassert
8388633	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388633	Above upper critical threshold deassert
8388634	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388634	Hard disk usage exceeds threshold deassert
8388637	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388637	Hard disk RAID array is part degraded deassert
8388638	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388638	Hard disk RAID array is degraded deassert
8388639	1.3.6.1.4.1.3902.2601.15.1.500.2.26.8388639	Hard disk RAID array is offline deassert

4.7 Fan Alarm Traps

For a detailed description of the fan alarm traps, refer to Table 4-9.

Table 4-9 Fan Alarm Trap Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
19	1.3.6.1.4.1.3902.2601.15.1.500.2.29.19	Shutdown due to all fans absent
66050	1.3.6.1.4.1.3902.2601.15.1.500.2.29.66050	Below lower major threshold
66057	1.3.6.1.4.1.3902.2601.15.1.500.2.29.66057	Above upper major threshold
66560	1.3.6.1.4.1.3902.2601.15.1.500.2.29.66560	Below lower minor threshold
66562	1.3.6.1.4.1.3902.2601.15.1.500.2.29.66562	Below lower major threshold
66567	1.3.6.1.4.1.3902.2601.15.1.500.2.29.66567	Above upper minor threshold
66569	1.3.6.1.4.1.3902.2601.15.1.500.2.29.66569	Above upper major threshold
459777	1.3.6.1.4.1.3902.2601.15.1.500.2.29.459777	The fan is abnormal
525312	1.3.6.1.4.1.3902.2601.15.1.500.2.29.525312	Device Removed / Device Absent
525313	1.3.6.1.4.1.3902.2601.15.1.500.2.29.525313	Device Inserted / Device Present
721921	1.3.6.1.4.1.3902.2601.15.1.500.2.29.721921	Redundancy Lost
8454658	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8454658	Below lower major threshold deassert
8454665	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8454665	Above upper major threshold deassert
8455168	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8455168	Below lower minor threshold deassert
8455170	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8455170	Below lower major threshold deassert
8455175	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8455175	Above upper minor threshold deassert
8455177	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8455177	Above upper major threshold deassert
8848385	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8848385	The fan is abnormal deassert
8913920	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8913920	Device Removed / Device Absent deassert
8913921	1.3.6.1.4.1.3902.2601.15.1.500.2.29.8913921	Device Removed / Device Absent

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
9110529	1.3.6.1.4.1.3902.2601.15.1.500.2.29.9110529	Redundancy Lost deassert

4.8 Cooling Unit Alarm Traps

For a detailed description of the cooling unit alarm traps, refer to Table 4-10.

Table 4-10 Descriptions of the Cooling Unit Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
20	1.3.6.1.4.1.3902.2601.15.1.500.2.30.20	Liquid cooling system leaks
21	1.3.6.1.4.1.3902.2601.15.1.500.2.30.21	Liquid cooling system is out of service
22	1.3.6.1.4.1.3902.2601.15.1.500.2.30.22	Liquid cooled server but the liquid cooled board cannot be detected
23	1.3.6.1.4.1.3902.2601.15.1.500.2.30.23	The liquid cooling board is present but not the liquid cooling server
24	1.3.6.1.4.1.3902.2601.15.1.500.2.30.24	The liquid line is absent
465153	1.3.6.1.4.1.3902.2601.15.1.500.2.30.465153	Liquid cooling system leaks
8388630	1.3.6.1.4.1.3902.2601.15.1.500.2.30.8388630	Liquid cooled server but the liquid cooled board cannot be detected deassert
8388631	1.3.6.1.4.1.3902.2601.15.1.500.2.30.8388631	The liquid cooling board is present but not the liquid cooling server deassert

4.9 Memory Alarm Traps

For a detailed description of the memory alarm traps, refer to Table 4-11.

Table 4-11 Memory Alarm Trap Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
17	1.3.6.1.4.1.3902.2601.15.1.500.2.32.17	Memory usage exceeds threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.32.65799	Above upper minor threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.32.65801	Above upper major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.32.65803	Above upper critical threshold
265217	1.3.6.1.4.1.3902.2601.15.1.500.2.32.265217	Memory predictive failure
7277568	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277568	Correctable memory error
7277569	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277569	Uncorrectable memory error
7277570	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277570	Memory parity error
7277571	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277571	Memory Scrub Failed(stuck bit)
7277572	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277572	Memory Device Disabled
7277573	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277573	Correctable ECC logging limit reached
7277575	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277575	Memory configuration error
7277577	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277577	Memory automatically throttled
7277578	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277578	Memory critical overtempera-ture
7277581	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277581	Memory predictive failure
7277582	1.3.6.1.4.1.3902.2601.15.1.500.2.32.7277582	Memory isolation
8388625	1.3.6.1.4.1.3902.2601.15.1.500.2.32.8388625	Memory usage exceeds thresh-old deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.32.8454407	Above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.32.8454409	Above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.32.8454411	Above upper critical threshold deassert
8653825	1.3.6.1.4.1.3902.2601.15.1.500.2.32.8653825	Memory predictive failure de-assert
15666176	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666176	Correctable memory error de-assert
15666177	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666177	Uncorrectable memory error deassert
15666178	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666178	Memory parity error deassert

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
15666179	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666179	Memory Scrub Failedstuck bit deassert
15666180	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666180	Memory Device Disabled de-assert
15666181	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666181	Correctable ECC logging limit reached deassert
15666183	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666183	Memory configuration error de-assert
15666185	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666185	Memory automatically throttled deassert
15666186	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666186	Memory critical overtempera-ture deassert
15666189	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666189	Memory predictive failure de-assert
15666190	1.3.6.1.4.1.3902.2601.15.1.500.2.32.15666190	Memory isolation deassert

4.10 BIOS Alarm Traps

For a detailed description of the BIOS alarm traps, refer to Table 4-12.

Table 4-12 BIOS Alarm Trap Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
198401	1.3.6.1.4.1.3902.2601.15.1.500.2.34.198401	The CPU microcode fails to be loaded.
7276033	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7276033	Pre-boot password violation - user password
7278336	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7278336	System Firmware Error
7278337	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7278337	System Firmware Hang
7278338	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7278338	POST error - user authentica-tion
7282176	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7282176	No bootable media
7285505	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7285505	Firmware or software change detected with associated Enti-

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
		tyInformational Success or failure not implied
7285511	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7285511	Software or FW Change detected with associated Entity was successful deassertion event means unsuccessful
7285767	1.3.6.1.4.1.3902.2601.15.1.500.2.34.7285767	FRU Communication Lost
8587009	1.3.6.1.4.1.3902.2601.15.1.500.2.34.8587009	The CPU microcode fails to be loaded deassert
15674119	1.3.6.1.4.1.3902.2601.15.1.500.2.34.15674119	Firmware or FW change detected with associated Entity was successful deassertion event means unsuccessful

4.11 Operating System Alarm Traps

For a detailed description of the operating system alarm traps, refer to Table 4-13.

Table 4-13 Descriptions of the Operating System Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
7282432	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282432	A boot completed
7282433	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282433	C boot completed
7282434	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282434	PXE boot completed
7282435	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282435	Diagnostic boot completed
7282436	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282436	CDROM boot completed
7282437	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282437	ROM boot completed
7282438	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282438	boot completed - device not specified
7282439	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282439	Installation started
7282440	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282440	Installation completed
7282441	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282441	Installation aborted
7282442	1.3.6.1.4.1.3902.2601.15.1.500.2.35.7282442	Installation failed

4.12 Network Connection Alarm Traps

For a detailed description of the network connection alarm traps, refer to Table 4-14.

Table 4-14 Descriptions of the Network Connection Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
7275780	1.3.6.1.4.1.3902.2601.15.1.500.2.42.7275780	LAN Leash Lost
15664388	1.3.6.1.4.1.3902.2601.15.1.500.2.42.15664388	LAN Leash Lost deassert

4.13 BMC Event Alarm Traps

For a detailed description of the BMC event alarm traps, refer to Table 4-15.

Table 4-15 Descriptions of the BMC Event Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
17	1.3.6.1.4.1.3902.2601.15.1.500.2.46.17	BMC failed to synchronize NTP time
7281920	1.3.6.1.4.1.3902.2601.15.1.500.2.46.7281920	BMC initiated by power up
7281921	1.3.6.1.4.1.3902.2601.15.1.500.2.46.7281921	BMC initiated by hard reset
7285505	1.3.6.1.4.1.3902.2601.15.1.500.2.46.7285505	Firmware or software change detected with associated Entity. Informational Success or failure not implied
7285511	1.3.6.1.4.1.3902.2601.15.1.500.2.46.7285511	Software or F/W Change detected with associated Entity was successful. (deassertion event means unsuccessful)
8388625	1.3.6.1.4.1.3902.2601.15.1.500.2.46.8388625	BMC failed to synchronize NTP time deassert
15674119	1.3.6.1.4.1.3902.2601.15.1.500.2.46.15674119	Software or F/W Change detected with associated Entity was failure. (deassertion event means unsuccessful)

4.14 PCI Bus Alarm Traps

For a detailed description of the PCI bus alarm traps, refer to Table 4-16.

Table 4-16 Descriptions of the PCI Bus Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
7279364	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279364	PCI PERR
7279365	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279365	PCI SERR
7279367	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279367	Bus correctable error
7279368	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279368	Bus uncorrectable error
7279370	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279370	Bus fatal error
7279371	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279371	Bus degraded
7279374	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279374	PCIe EDPC Event
7279390	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279390	PCIe mode changed
7279406	1.3.6.1.4.1.3902.2601.15.1.500.2.48.7279406	PCIe mode error
15667972	1.3.6.1.4.1.3902.2601.15.1.500.2.48.15667972	PCI PERR deassert
15667973	1.3.6.1.4.1.3902.2601.15.1.500.2.48.15667973	PCI SERR deassert
15667975	1.3.6.1.4.1.3902.2601.15.1.500.2.48.15667975	Bus correctable error deassert
15667976	1.3.6.1.4.1.3902.2601.15.1.500.2.48.15667976	Bus uncorrectable error de-assert
15667978	1.3.6.1.4.1.3902.2601.15.1.500.2.48.15667978	Bus fatal error deassert
15667979	1.3.6.1.4.1.3902.2601.15.1.500.2.48.15667979	Bus degraded deassert

4.15 Ventilation Alarm Traps

For a detailed description of the ventilation alarm traps, refer to Table 4-17.

Table 4-17 Ventilation Alarm Trap Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
1	1.3.6.1.4.1.3902.2601.15.1.500.2.55.1	Abnormal reading of ambient temperature
65792	1.3.6.1.4.1.3902.2601.15.1.500.2.55.65792	Below lower minor threshold
65794	1.3.6.1.4.1.3902.2601.15.1.500.2.55.65794	Below lower major threshold
65796	1.3.6.1.4.1.3902.2601.15.1.500.2.55.65796	Below lower critical threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.55.65799	Above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.55.65801	Above upper major threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.55.65803	Above upper critical threshold
8388609	1.3.6.1.4.1.3902.2601.15.1.500.2.55.8388609	Abnormal reading of ambient temperature deassert
8454400	1.3.6.1.4.1.3902.2601.15.1.500.2.55.8454400	Below lower minor threshold deassert
8454402	1.3.6.1.4.1.3902.2601.15.1.500.2.55.8454402	Below lower major threshold deassert
8454404	1.3.6.1.4.1.3902.2601.15.1.500.2.55.8454404	Below lower critical threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.55.8454407	Above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.55.8454409	Above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.55.8454411	Above upper critical threshold deassert

4.16 System Firmware Alarm Trap

For a detailed description of the system firmware alarm traps, refer to Table 4-18.

Table 4-18 Descriptions of the System Firmware Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
7278336	1.3.6.1.4.1.3902.2601.15.1.500.2.56.7278336	DPU soc post timeout
7278337	1.3.6.1.4.1.3902.2601.15.1.500.2.56.7278337	DPU bios post timeout
7278338	1.3.6.1.4.1.3902.2601.15.1.500.2.56.7278338	Waiting DPU post start
15666946	1.3.6.1.4.1.3902.2601.15.1.500.2.56.15666946	Waiting DPU post success

4.17 Mounting Lug Alarm Traps

For a detailed description of the mounting lug alarm traps, refer to Table 4-19.

Table 4-19 Descriptions of the Mounting Lug Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
17	1.3.6.1.4.1.3902.2601.15.1.500.2.144.17	Heat alert from ambient temperature for power off
32	1.3.6.1.4.1.3902.2601.15.1.500.2.144.32	Left mounting ear not work well
8388625	1.3.6.1.4.1.3902.2601.15.1.500.2.144.8388625	Heat alert from ambient temperature for power off deassert

4.18 RAID Controller Card Alarm Traps

For a detailed description of the RAID controller card alarm traps, refer to Table 4-20.

Table 4-20 Descriptions of the RAID Controller Card Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
18	1.3.6.1.4.1.3902.2601.15.1.500.2.145.18	RAID Card BBU temperature high
19	1.3.6.1.4.1.3902.2601.15.1.500.2.145.19	RAID Card BBU voltage low
8388626	1.3.6.1.4.1.3902.2601.15.1.500.2.145.8388626	RAID Card BBU temperature high deassert
8388627	1.3.6.1.4.1.3902.2601.15.1.500.2.145.8388627	RAID Card BBU voltage low deassert

4.19 PCIe NIC Alarm Traps

For a detailed description of the PCIe NIC alarm traps, refer to Table 4-21.

Table 4-21 Descriptions of the PCIe NIC Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
17	1.3.6.1.4.1.3902.2601.15.1.500.2.146.17	PCIe netport link down
8388625	1.3.6.1.4.1.3902.2601.15.1.500.2.146.8388625	PCIe netport link up

4.20 Onboard NIC Alarm Traps

For a detailed description of the onboard NIC alarm traps, refer to Table 4-22.

Table 4-22 Descriptions of the onboard NIC Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
17	1.3.6.1.4.1.3902.2601.15.1.500.2.150.17	Embedded netport link down
65792	1.3.6.1.4.1.3902.2601.15.1.500.2.150.65792	Above upper minor threshold
65794	1.3.6.1.4.1.3902.2601.15.1.500.2.150.65794	Above upper major threshold
65796	1.3.6.1.4.1.3902.2601.15.1.500.2.150.65796	Above upper critical threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.150.65799	Below lower minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.150.65801	Below lower major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.150.65803	Below lower critical threshold
8388625	1.3.6.1.4.1.3902.2601.15.1.500.2.150.8388625	Embedded netport link up
8454400	1.3.6.1.4.1.3902.2601.15.1.500.2.150.8454400	Above upper minor threshold deassert
8454402	1.3.6.1.4.1.3902.2601.15.1.500.2.150.8454402	Above upper major threshold deassert
8454404	1.3.6.1.4.1.3902.2601.15.1.500.2.150.8454404	Above upper critical threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.150.8454407	Below lower minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.150.8454409	Below lower major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.150.8454411	Below lower critical threshold deassert

4.21 OCP NIC Alarm Traps

For a detailed description of the OCP NIC alarm traps, refer to Table 4-23.

Table 4-23 Descriptions of the OCP NIC Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
17	1.3.6.1.4.1.3902.2601.15.1.500.2.151.17	OCP netport link down
8388625	1.3.6.1.4.1.3902.2601.15.1.500.2.151.8388625	OCP netport link up

4.22 Environment Humidity Alarm Traps

For a detailed description of the environment humidity alarm traps, refer to Table 4-24.

Table 4-24 Descriptions of the Environment Humidity Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
71680	1.3.6.1.4.1.3902.2601.15.1.500.2.152.71680	ENV HUMI below lower minor threshold
71682	1.3.6.1.4.1.3902.2601.15.1.500.2.152.71682	ENV HUMI below lower major threshold
71684	1.3.6.1.4.1.3902.2601.15.1.500.2.152.71684	ENV HUMI below lower critical threshold
71687	1.3.6.1.4.1.3902.2601.15.1.500.2.152.71687	ENV HUMI above upper minor threshold
71689	1.3.6.1.4.1.3902.2601.15.1.500.2.152.71689	ENV HUMI above upper major threshold
71691	1.3.6.1.4.1.3902.2601.15.1.500.2.152.71691	ENV HUMI above upper critical threshold
8460288	1.3.6.1.4.1.3902.2601.15.1.500.2.152.8460288	ENV HUMI below lower minor threshold deassert
8460290	1.3.6.1.4.1.3902.2601.15.1.500.2.152.8460290	ENV HUMI below lower major threshold deassert
8460292	1.3.6.1.4.1.3902.2601.15.1.500.2.152.8460292	ENV HUMI below lower critical threshold deassert
8460295	1.3.6.1.4.1.3902.2601.15.1.500.2.152.8460295	ENV HUMI above upper minor threshold deassert
8460297	1.3.6.1.4.1.3902.2601.15.1.500.2.152.8460297	ENV HUMI above upper major threshold deassert
8460299	1.3.6.1.4.1.3902.2601.15.1.500.2.152.8460299	ENV HUMI above upper critical threshold deassert

4.23 Mainboard Alarm Traps

For a detailed description of the mainboard alarm traps, refer to Table 4-25.

Table 4-25 Mainboard Alarm Trap Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.160.65799	Above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.160.65801	Above upper major threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.160.65803	Above upper critical threshold
66048	1.3.6.1.4.1.3902.2601.15.1.500.2.160.66048	Below lower minor threshold
66050	1.3.6.1.4.1.3902.2601.15.1.500.2.160.66050	Below lower major threshold
66052	1.3.6.1.4.1.3902.2601.15.1.500.2.160.66052	Below lower critical threshold
66055	1.3.6.1.4.1.3902.2601.15.1.500.2.160.66055	Above upper minor threshold
66057	1.3.6.1.4.1.3902.2601.15.1.500.2.160.66057	Above upper major threshold
66059	1.3.6.1.4.1.3902.2601.15.1.500.2.160.66059	Above upper critical threshold
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454407	Above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454409	Above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454411	Above upper critical threshold deassert
8454656	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454656	Below lower minor threshold deassert
8454658	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454658	Below lower major threshold deassert
8454660	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454660	Below lower critical threshold deassert
8454663	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454663	Above upper minor threshold deassert
8454665	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454665	Above upper major threshold deassert
8454667	1.3.6.1.4.1.3902.2601.15.1.500.2.160.8454667	Above upper critical threshold deassert

4.24 GPU Baseboard Alarm Traps

For a detailed description of the GPU baseboard alarm traps, refer to Table 4-26.

Table 4-26 Descriptions of the GPU Baseboard Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65792	1.3.6.1.4.1.3902.2601.15.1.500.2.224.65792	Below lower minor threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65794	1.3.6.1.4.1.3902.2601.15.1.500.2.224.65794	Below lower major threshold
65796	1.3.6.1.4.1.3902.2601.15.1.500.2.224.65796	Below lower critical threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.224.65799	Above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.224.65801	Above upper major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.224.65803	Above upper critical threshold
464129	1.3.6.1.4.1.3902.2601.15.1.500.2.224.464129	GPU UBB minor fault alarm
464130	1.3.6.1.4.1.3902.2601.15.1.500.2.224.464130	GPU UBB major fault alarm
8454400	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8454400	Below lower minor threshold deassert
8454402	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8454402	Below lower major threshold deassert
8454404	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8454404	Below lower critical threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8454407	Above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8454409	Above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8454411	Above upper critical threshold deassert
8852737	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8852737	GPU UBB minor fault alarm de-assert
8852738	1.3.6.1.4.1.3902.2601.15.1.500.2.224.8852738	GPU UBB major fault alarm de-assert

4.25 Acceleration Card Alarm Traps

For a detailed description of the acceleration card alarm traps, refer to Table 4-27.

Table 4-27 Descriptions of the Acceleration Card Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65792	1.3.6.1.4.1.3902.2601.15.1.500.2.225.65792	Below lower minor threshold
65794	1.3.6.1.4.1.3902.2601.15.1.500.2.225.65794	Below lower major threshold
65796	1.3.6.1.4.1.3902.2601.15.1.500.2.225.65796	Below lower critical threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.225.65799	Above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.225.65801	Above upper major threshold
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.225.65803	Above upper critical threshold
8454400	1.3.6.1.4.1.3902.2601.15.1.500.2.225.8454400	Below lower minor threshold deassert
8454402	1.3.6.1.4.1.3902.2601.15.1.500.2.225.8454402	Below lower major threshold deassert
8454404	1.3.6.1.4.1.3902.2601.15.1.500.2.225.8454404	Below lower critical threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.225.8454407	Above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.225.8454409	Above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.225.8454411	Above upper critical threshold deassert

4.26 GPU Baseboard Optical Module Alarm Traps

For a detailed description of the GPU baseboard optical module alarm traps, refer to Table 4-28 .

Table 4-28 Descriptions of the GPU Baseboard Optical Module Alarm Traps

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65792	1.3.6.1.4.1.3902.2601.15.1.500.2.226.65792	GPU UBB OPT temp below lower minor threshold
65794	1.3.6.1.4.1.3902.2601.15.1.500.2.226.65794	GPU UBB OPT temp below lower major threshold
65796	1.3.6.1.4.1.3902.2601.15.1.500.2.226.65796	GPU UBB OPT temp below lower critical threshold
65799	1.3.6.1.4.1.3902.2601.15.1.500.2.226.65799	GPU UBB OPT temp above upper minor threshold
65801	1.3.6.1.4.1.3902.2601.15.1.500.2.226.65801	GPU UBB OPT temp above upper major threshold

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
65803	1.3.6.1.4.1.3902.2601.15.1.500.2.226.65803	GPU UBB OPT temp above upper critical threshold
8454400	1.3.6.1.4.1.3902.2601.15.1.500.2.226.8454400	GPU UBB OPT temp below lower minor threshold deassert
8454402	1.3.6.1.4.1.3902.2601.15.1.500.2.226.8454402	GPU UBB OPT temp below lower major threshold deassert
8454404	1.3.6.1.4.1.3902.2601.15.1.500.2.226.8454404	GPU UBB OPT temp below lower critical threshold deassert
8454407	1.3.6.1.4.1.3902.2601.15.1.500.2.226.8454407	GPU UBB OPT temp above upper minor threshold deassert
8454409	1.3.6.1.4.1.3902.2601.15.1.500.2.226.8454409	GPU UBB OPT temp above upper major threshold deassert
8454411	1.3.6.1.4.1.3902.2601.15.1.500.2.226.8454411	GPU UBB OPT temp above upper critical threshold de-assert

4.27 Trap Test

For a detailed description of the trap test, refer to Table 4-29.

Table 4-29 Trap Test Descriptions

Alarm Type ID/ Alarm Code	Alarm Trap OID	Alarm Description
1	1.3.6.1.4.1.3902.2601.15.1.500.2.254.1	Trap test

Tables

Glossary

BBU

- Battery Backup Unit

BDF

- Bus/Device/Function

BIOS

- Basic Input/Output System

BMC

- Baseboard Management Controller

CD

- Compact Disk

CPU

- Central Processing Unit

DDR

- Double Data Rate

DIMM

- Dual Inline Memory Module

DNS

- Domain Name System

DVD

- Digital Versatile Disc

FC

- Fiber Channel

FQDN

- Fully Qualified Domain Name

GPU

- Graphics Processing Unit

HBA

- Host Bus Adapter

ID

- Identification

IO

- Input & Output

IP

- Internet Protocol

IPv4

- Internet Protocol Version 4

IPv6

- Internet Protocol Version 6

JBOD

- Just a Bunch of Disk

LLDP

- Link Layer Discovery Protocol

MAC

- Media Access Control

ME

- Management Engine

MIB

- Management Information Base

NCSI

- Network Controller Sideband Interface

NMS

- Network Management System

NTP

- Network Time Protocol

NVMe

- Non-Volatile Memory Express

OCP

- Open Computer Project

OID

- Object Identifier

OOB

- Out of Band

OS

- Operating System

PCH

- Platform Controller Hub

PCI

- Peripheral Component Interconnect

PCIe

- Peripheral Component Interconnect Express

PSU

- Power Supply Unit

PXE

- Preboot eXecution Environment

RAID

- Redundant Array of Independent Disks

SAS

- Serial Attached SCSI

SMTP

- Simple Message Transfer Protocol

SN

- Serial Number

SNMP

- Simple Network Management Protocol

SSD

- Solid State Drive

TCP

- Transmission Control Protocol

TDP

- Thermal Design Power

TLS

- Transport Layer Security

UDP

- User Datagram Protocol

UEFI

- Unified Extensible Firmware Interface

UID

- Unit Identification Light

USM

- User Security Model

UTC

- Universal Time Coordinated

VACM

- View-Based Access Control Model

VLAN

- Virtual Local Area Network

iSAC

- Integrated Server Administrator Controller