

iBMC
V200R001
SNMP API Description

Issue **2.03**
Date **2017-1-10**

Copyright © Huawei Technologies Co., Ltd. 2016. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions



and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base
Bantian, Longgang
Shenzhen 518129
People's Republic of China

Website: <http://www.huawei.com>

Email: support@huawei.com

About This Document

Purpose

This document describes Simple Network Management Protocol (SNMP) Management Information Base (MIB) Application Programming Interfaces (APIs).

Intended Audience

This document is intended for:

- Technical support engineers
- Maintenance engineers

Change History

Date	Version	Specifications
2011-11-08	1.00	Completed the MIB file feature description.
2012-02-22	1.01	Updated the document based on comments from testing personnel.
2012-04-18	1.02	Revised the document based on trouble tickets.
2012-09-11	1.03	Revised the document based on trouble tickets.
2013-03-08	1.04	Changed the value ranges of some nodes based on the <i>Huawei SNMP MIB Definition Technical Specifications V2.0</i> .
2013-12-18	1.50	Updated the document based on comments from testing personnel.
2013-12-18	1.51	Revised the DDNS-related nodes.
2014-02-19	1.52	Revised the network mode node.
2014-04-30	1.53	Revised the systemPowerState node.
2014-05-30	1.54	Added the certificate node; and revised the power control node.

Date	Version	Specifications
2014-07-09	1.55	Added the stateless computing related nodes, certificate node, and snmpV3Algorithm node.
2014-07-25	1.56	Added the ethInfo node.
2014-07-29	1.57	Added the device remote management ID node.
2014-08-23	1.58	Revised the DDNS-related nodes.
2014-08-28	1.59	Revised the power-off description.
2014-10-08	1.60	Add the value 6 (Forcibly enter BIOS setup) for the systemBootsequence node.
2014-10-10	1.61	Revised the description of obsolete nodes.
2014-10-23	1.62	Added trap nodes.
2014-10-23	1.63	Corrected description errors.
2014-10-25	1.64	Added and revised trap OIDs in chapter 6.
2014-11-3	1.65	Added the specifications of the firmwareUpgrade module.
2014-11-4	1.66	Added the pCieDevicePresence , pCieDeviceStatus , and pCieAvailability nodes.
2014-11-6	1.67	Added trap OIDs.
2014-11-7	1.68	Revised trap specifications.
2014-11-12	1.69	Added and revised trap OIDs.
2014-11-14	1.70	Revised the description of hwFirmwareChange and hwHardwareChange .
2014-12-04	1.71	Added the remoteOEMInfo node.
2014-12-18	1.72	Added the pCieDeviceDevicename node.
2014-12-30	1.73	Revised the description and value of the safepowerofftime node.
2015-1-12	1.74	Added the following nodes related to active/standby PSUs: <ul style="list-style-type: none">• settedPowerSupplyEntireMode• actualPowerSupplyEntireMode• settedActivePowerSupply• powerSupplyWorkMode
2015-02-11	1.75	Added the deviceOwnerID and deviceSlotID nodes.
2015-02-28	1.76	Added the powerOnPermit , autoDiscoveryEnable and powerOnControl nodes.
2015-03-12	1.77	Revised the description of the hostName node.
2015-03-19	1.78	Nodes under the ethIPv4Enable module are added.

Date	Version	Specifications
2015-03-20	1.79	Revised the description of the userGroupID node, CustomRole is supported.
2015-04-8	1.80	Revised the descriptions of following nodes: <ul style="list-style-type: none">• systemBootsequence• bmcReboot• smtpTLSEnable• powerSupplyInputMode• powerSupplyPresence• fanPresence• firmwareType• fruNumber• ethHostPort• hardDiskPresence• pCieDeviceEntireStatus
2015-04-09	1.81	Revised the descriptions of following nodes: <ul style="list-style-type: none">• smtpLoginAccount• smtpReceiverAddress• smtpReceiverDescription
2015-04-09	1.82	The temperatureProperty module is added.
2015-04-17	1.83	Revised the description of the groupPrivilege node, CustomRole is supported.
2015-04-17	1.84	Add Common Nodes
2015-05-11	1.85	Revised the descriptions of following nodes: <ul style="list-style-type: none">• smtpLoginPassword• smtpSendFrom
2015-09-02	1.86	Revised the descriptions of following nodes: <ul style="list-style-type: none">• hwCPUProchot• hwOverVoltageCritical• hwOverVoltageCriticalDeassert
2015-11-30	1.87	Revised the LDAP nodes.
2015-12-01	1.88	Added the securityModuleProperty node.
2015-12-01	1.89	1. Add following nodes of hddDiskProperty , <ul style="list-style-type: none">• hardDiskSerialNumber• hardDiskModelNumber• hardDiskManufacturer 2. Add PS Redundancy in Trap Specifications
2015-12-02	1.90	Added the firmwareBoard node.

Date	Version	Specifications
2015-12-03	1.91	Add SELStatus and BMCBootUp in Trap Specifications
2015-12-13	1.92	Revised the description and value of the deviceSlotID node.
2016-03-22	1.93	Add Log in Trap Specifications
2016-05-09	1.94	Revised the LDAP nodes.
2016-06-14	1.95	<ul style="list-style-type: none">• Add nodes of raidControllerProperty and logicalDriveProperty;• Add leaf nodes in hardDiskDescriptionEntry
2016-09-02	1.96	Add nodes of cpuDescriptionEntry and memoryDescriptionEntry ;
2016-11-10	1.97	Add node productUniqueID
2016-11-15	1.98	<ul style="list-style-type: none">• Add node systemCpuUsage;• Add leaf nodes sensorUnit & sensorEventReadingType in sensorProperty
2016-11-26	1.99	Add networkTimeProtocol.
2016-12-16	2.00	<ul style="list-style-type: none">• Add sub-nodes of hardDiskProperty, raidControllerProperty, logicalDriveProperty. And some of nodes in table are read-write.• Add diskArrayProperty.
2017-1-7	2.01	Add node twoFactorAuthentication
2017-1-8	2.02	Add node remoteControl and leaf node localKVMState
2017-2-21	2.03	Add hwMemoryConfigError、hwMemoryInitializationError、hwNoAvailableMemoryError、hwCPUMemoryConfigError、hwCPUMRCFatalError、hwMemoryBoardSMI2TainingError、hwMainboardSMI2TainingError

Contents

About This Document.....	ii
1 Overview.....	1
1.1 MIB Feature Summary	1
1.1.1 Basic Rules	1
1.1.2 Key Parameter Description.....	1
1.2 MIB Definition Consistency (MIB Change History).....	1
1.3 References	1
2 Table Overview	2
3 Information About Common Nodes	5
4 Common SNMP Error Codes.....	7
5 MIB Table Specifications	8
5.1 system Specifications.....	8
5.1.1 Function Description	8
5.1.2 Constraints on the Create Operation	12
5.1.3 Constraints on the Modify Operation	12
5.1.4 Constraints on the Delete Operation	12
5.1.5 Constraints on the Query Operation	12
5.1.6 Constraints on the Set Operation	12
5.2 domainNameSystem Specifications.....	13
5.2.1 Function Description	13
5.2.2 Constraints on the Create Operation	14
5.2.3 Constraints on the Modify Operation	14
5.2.4 Constraints on the Delete Operation	14
5.2.5 Constraints on the Query Operation	14
5.2.6 Constraints on the Set Operation	14
5.3 ldap Specifications	14
5.3.1 Function Description	14
5.3.2 Constraints on the Create Operation	19
5.3.3 Constraints on the Modify Operation	19
5.3.4 Constraints on the Delete Operation	20
5.3.5 Constraints on the Query Operation	20

5.3.6 Constraints on the Set Operation	20
5.4 trap Specifications	20
5.4.1 Function Description	20
5.4.2 Constraints on the Create Operation	23
5.4.3 Constraints on the Modify Operation	23
5.4.4 Constraints on the Delete Operation	23
5.4.5 Constraints on the Query Operation	23
5.4.6 Constraints on the Set Operation	23
5.5 smtp Specifications	24
5.5.1 Function Description	24
5.5.2 Constraints on the Create Operation	26
5.5.3 Constraints on the Modify Operation	26
5.5.4 Constraints on the Delete Operation	26
5.5.5 Constraints on the Query Operation	26
5.5.6 Constraints on the Set Operation	26
5.6 powerSupplyInfo Specifications	27
5.6.1 Function Description	27
5.6.2 Constraints on the Create Operation	29
5.6.3 Constraints on the Modify Operation	30
5.6.4 Constraints on the Delete Operation	30
5.6.5 Constraints on the Query Operation	30
5.6.6 Constraints on the Set Operation	30
5.7 fruPowerProperty Specifications	30
5.7.1 Function Description	30
5.7.2 Constraints on the Create Operation	31
5.7.3 Constraints on the Modify Operation	31
5.7.4 Constraints on the Delete Operation	31
5.7.5 Constraints on the Query Operation	31
5.7.6 Constraints on the Set Operation	31
5.8 fanProperty Specifications	31
5.8.1 Function Description	31
5.8.2 Constraints on the Create Operation	33
5.8.3 Constraints on the Modify Operation	33
5.8.4 Constraints on the Delete Operation	33
5.8.5 Constraints on the Query Operation	33
5.8.6 Constraints on the Set Operation	33
5.9 fruLedProperty Specifications	34
5.9.1 Function Description	34
5.9.2 Constraints on the Create Operation	36
5.9.3 Constraints on the Modify Operation	36
5.9.4 Constraints on the Delete Operation	36
5.9.5 Constraints on the Query Operation	36

5.9.6 Constraints on the Set Operation	36
5.10 componentProperty Specifications	36
5.10.1 Function Description.....	36
5.10.2 Constraints on the Create Operation	37
5.10.3 Constraints on the Modify Operation	37
5.10.4 Constraints on the Delete Operation	37
5.10.5 Constraints on the Query Operation	37
5.10.6 Constraints on the Set Operation	37
5.11 firmwareProperty Specifications.....	38
5.11.1 Function Description.....	38
5.11.2 Constraints on the Create Operation	39
5.11.3 Constraints on the Modify Operation.....	39
5.11.4 Constraints on the Delete Operation	39
5.11.5 Constraints on the Query Operation.....	39
5.11.6 Constraints on the Set Operation	39
5.12 networkProperty Specifications	39
5.12.1 Function Description.....	39
5.12.2 Constraints on the Create Operation	41
5.12.3 Constraints on the Modify Operation	41
5.12.4 Constraints on the Delete Operation	41
5.12.5 Constraints on the Query Operation	41
5.12.6 Constraints on the Set Operation	41
5.13 sensorProperty Specifications	41
5.13.1 Function Description.....	41
5.13.2 Constraints on the Create Operation	43
5.13.3 Constraints on the Modify Operation	43
5.13.4 Constraints on the Delete Operation	44
5.13.5 Constraints on the Query Operation	44
5.13.6 Constraints on the Set Operation	44
5.14 userProperty Specifications	44
5.14.1 Function Description.....	44
5.14.2 Constraints on the Create Operation	46
5.14.3 Constraints on the Modify Operation	46
5.14.4 Constraints on the Delete Operation	46
5.14.5 Constraints on the Query Operation	46
5.14.6 Constraints on the Set Operation	46
5.15 cpuProperty Specifications	46
5.15.1 Function Description.....	46
5.15.2 Constraints on the Create Operation	48
5.15.3 Constraints on the Modify Operation	49
5.15.4 Constraints on the Delete Operation	49
5.15.5 Constraints on the Query Operation	49

5.15.6 Constraints on the Set Operation	49
5.16 memoryProperty Specifications	49
5.16.1 Function Description.....	49
5.16.2 Constraints on the Create Operation	51
5.16.3 Constraints on the Modify Operation	51
5.16.4 Constraints on the Delete Operation	51
5.16.5 Constraints on the Query Operation	51
5.16.6 Constraints on the Set Operation	51
5.17 lomProperty Specifications	51
5.17.1 Function Description.....	51
5.17.2 Constraints on the Create Operation	52
5.17.3 Constraints on the Modify Operation	52
5.17.4 Constraints on the Delete Operation	52
5.17.5 Constraints on the Query Operation	52
5.17.6 Constraints on the Set Operation	52
5.18 hardDiskProperty Specifications	52
5.18.1 Function Description.....	52
5.18.2 Constraints on the Create Operation	56
5.18.3 Constraints on the Modify Operation	56
5.18.4 Constraints on the Delete Operation	56
5.18.5 Constraints on the Query Operation	56
5.18.6 Constraints on the Set Operation	56
5.19 fruInfo Specifications	57
5.19.1 Function Description.....	57
5.19.2 Constraints on the Create Operation	58
5.19.3 Constraints on the Modify Operation	58
5.19.4 Constraints on the Delete Operation	59
5.19.5 Constraints on the Query Operation	59
5.19.6 Constraints on the Set Operation	59
5.20 powerStatistic Specifications	59
5.20.1 Function Description.....	59
5.20.2 Constraints on the Create Operation	60
5.20.3 Constraints on the Modify Operation	60
5.20.4 Constraints on the Delete Operation	60
5.20.5 Constraints on the Query Operation	60
5.20.6 Constraints on the Set Operation	60
5.21 powerManagement Specifications	60
5.21.1 Function Description.....	60
5.21.2 Constraints on the Create Operation	61
5.21.3 Constraints on the Modify Operation	61
5.21.4 Constraints on the Delete Operation	61
5.21.5 Constraints on the Query Operation	61

5.21.6 Constraints on the Set Operation	61
5.22 pCieDeviceProperty Specifications	62
5.22.1 Function Description.....	62
5.22.2 Constraints on the Create Operation	63
5.22.3 Constraints on the Modify Operation	63
5.22.4 Constraints on the Delete Operation	64
5.22.5 Constraints on the Query Operation	64
5.22.6 Constraints on the Set Operation	64
5.23 mezzProperty Specifications.....	64
5.23.1 Function Description.....	64
5.23.2 Constraints on the Create Operation	64
5.23.3 Constraints on the Modify Operation	64
5.23.4 Constraints on the Delete Operation	65
5.23.5 Constraints on the Query Operation	65
5.23.6 Constraints on the Set Operation	65
5.24 temperatureProperty Specifications	65
5.24.1 Function Description.....	65
5.24.2 Constraints on the Create Operation	67
5.24.3 Constraints on the Modify Operation	67
5.24.4 Constraints on the Delete Operation	67
5.24.5 Constraints on the Query Operation	67
5.24.6 Constraints on the Set Operation	67
5.25 remoteManagement Specifications	69
5.25.1 Function Description.....	69
5.25.2 Constraints on the Create Operation	70
5.25.3 Constraints on the Modify Operation	70
5.25.4 Constraints on the Delete Operation	70
5.25.5 Constraints on the Query Operation	70
5.25.6 Constraints on the Set Operation	70
5.26 snmpMIBConfig Specifications.....	70
5.26.1 Function Description.....	70
5.26.2 Constraints on the Create Operation	71
5.26.3 Constraints on the Modify Operation	71
5.26.4 Constraints on the Delete Operation	71
5.26.5 Constraints on the Query Operation	71
5.26.6 Constraints on the Set Operation	71
5.27 firmwareUpgrade Specifications	71
5.27.1 Function Description.....	71
5.27.2 Constraints on the Create Operation	73
5.27.3 Constraints on the Modify Operation	73
5.27.4 Constraints on the Delete Operation	73
5.27.5 Constraints on the Query Operation	73

5.27.6 Constraints on the Set Operation	73
5.28 certificate Specifications.....	73
5.28.1 Function Description.....	73
5.28.2 Constraints on the Create Operation	79
5.28.3 Constraints on the Modify Operation	79
5.28.4 Constraints on the Delete Operation	79
5.28.5 Constraints on the Query Operation	79
5.28.6 Constraints on the Set Operation	79
5.29 SDCardProperty Specifications	80
5.29.1 Function Description.....	80
5.29.2 Constraints on the Create Operation	81
5.29.3 Constraints on the Modify Operation	81
5.29.4 Constraints on the Delete Operation	81
5.29.5 Constraints on the Query Operation	81
5.29.6 Constraints on the Set Operation	81
5.30 securityModuleProperty Specifications	81
5.30.1 Function Description.....	81
5.30.2 Constraints on the Create Operation	82
5.30.3 Constraints on the Modify Operation	82
5.30.4 Constraints on the Delete Operation	82
5.30.5 Constraints on the Query Operation	82
5.30.6 Constraints on the Set Operation	82
5.31 syslog Specifications	82
5.31.1 Function Description.....	82
5.31.2 Constraints on the Create Operation	85
5.31.3 Constraints on the Modify Operation	85
5.31.4 Constraints on the Delete Operation	85
5.31.5 Constraints on the Query Operation	85
5.31.6 Constraints on the Set Operation	85
5.32 fileTransfer Specifications	86
5.32.1 Function Description.....	86
5.32.2 Constraints on the Create Operation	87
5.32.3 Constraints on the Modify Operation	87
5.32.4 Constraints on the Delete Operation	87
5.32.5 Constraints on the Query Operation	88
5.32.6 Constraints on the Set Operation	88
5.33 raidControllerProperty Specifications	89
5.33.1 Function Description.....	89
5.33.2 Constraints on the Create Operation	95
5.33.3 Constraints on the Modify Operation	95
5.33.4 Constraints on the Delete Operation	95
5.33.5 Constraints on the Query Operation	95

5.33.6 Constraints on the Set Operation	95
5.34 logicalDriveProperty Specifications	96
5.34.1 Function Description.....	96
5.34.2 Constraints on the Create Operation	99
5.34.3 Constraints on the Modify Operation	100
5.34.4 Constraints on the Delete Operation	100
5.34.5 Constraints on the Query Operation	100
5.34.6 Constraints on the Set Operation	100
5.35 networkTimeProtocol Specifications	67
5.35.1 Function Description.....	67
5.35.2 Constraints on the Create Operation	69
5.35.3 Constraints on the Modify Operation	69
5.35.4 Constraints on the Delete Operation	69
5.35.5 Constraints on the Query Operation	69
5.35.6 Constraints on the Set Operation	69
5.36 diskArrayProperty Specifications	101
5.36.1 Function Description.....	101
5.36.2 Constraints on the Create Operation	102
5.36.3 Constraints on the Modify Operation	102
5.36.4 Constraints on the Delete Operation	102
5.36.5 Constraints on the Query Operation	102
5.36.6 Constraints on the Set Operation	102
5.37 remoteControl Specifications	102
5.37.1 Function Description.....	102
5.37.2 Constraints on the Create Operation	103
5.37.3 Constraints on the Modify Operation	103
5.37.4 Constraints on the Delete Operation	103
5.37.5 Constraints on the Query Operation	103
5.37.6 Constraints on the Set Operation	103
5.38 twoFactorAuthentication Specifications	103
5.38.1 Function Description.....	103
5.38.2 Constraints on the Create Operation	105
5.38.3 Constraints on the Modify Operation	105
5.38.4 Constraints on the Delete Operation	105
5.38.5 Constraints on the Query Operation	105
5.38.6 Constraints on the Set Operation	105
5.39 configuration Specifications	105
5.39.1 Function Description.....	105
5.39.2 Constraints on the Create Operation	106
5.39.3 Constraints on the Modify Operation	106
5.39.4 Constraints on the Delete Operation	106
5.39.5 Constraints on the Query Operation	106

5.39.6 Constraints on the Set Operation	106
6 Trap Specifications	107
6.1 hwOEM	107
6.2 hwPhysicalSecurity	108
6.3 hwCPU	108
6.3.1 hwCPUCATError	108
6.3.2 hwCPUCATErrorDeassert	109
6.3.3 hwCPUThermalTrip	109
6.3.4 hwCPUThermalTripDeassert	110
6.3.5 hwCPUSelfTestFail	110
6.3.6 hwCPUSelfTestFailDeassert	111
6.3.7 hwCPUCfgError	111
6.3.8 hwCPUCfgErrorDeassert	112
6.3.9 hwCPUPresence	112
6.3.10 hwCPUPresenceDeassert	113
6.3.11 hwCPUOffline	113
6.3.12 hwCPUOfflineDeassert	114
6.3.13 hwCPUMCE	114
6.3.14 hwCPUMCEDeassert	115
6.3.15 hwVMSELlinkFail	115
6.3.16 hwVMSELlinkFailDeassert	116
6.4 hwPowerSupply	116
6.4.1 hwPowerSupplyFault	116
6.4.2 hwPowerSupplyFaultDeassert	117
6.4.3 hwPowerSupplyPredictiveFailure	117
6.4.4 hwPowerSupplyPredictiveFailureDeassert	118
6.4.5 hwPowerSupplyInputLost	118
6.4.6 hwPowerSupplyInputLostDeassert	119
6.4.7 hwPowerSupplyACLost	119
6.4.8 hwPowerSupplyACLostDeassert	120
6.5 hwMemory	120
6.5.1 hwCorrectableECC	120
6.5.2 hwCorrectableECCDeassert	121
6.5.3 hwUncorrectableECC	121
6.5.4 hwUncorrectableECCDeassert	122
6.5.5 hwMemoryECCLimitation	122
6.5.6 hwMemoryECCLimitationDeassert	123
6.5.7 hwMemoryPresence	123
6.5.8 hwMemoryPresenceDeassert	124
6.5.9 hwMemoryCfgError	124
6.5.10 hwMemoryCfgErrorDeassert	125

6.5.11 hwMemorySpare.....	125
6.5.12 hwMemorySpareDeassert.....	126
6.5.13 hwMemoryOvertemp.....	126
6.5.14 hwMemoryOvertempDeassert.....	127
6.6 hwStorageDevice.....	127
6.6.1 hwStorageDevicePresence.....	127
6.6.2 hwStorageDevicePresenceDeassert.....	128
6.6.3 hwStorageDeviceFault.....	128
6.6.4 hwStorageDeviceFaultDeassert.....	129
6.6.5 hwStorageDevicePredictiveFailure.....	129
6.6.6 hwStorageDevicePredictiveFailureDeassert.....	130
6.6.7 hwRAIDArrayFail.....	130
6.6.8 hwRAIDArrayFailDeassert.....	131
6.6.9 hwRAIDRebuild.....	131
6.6.10 hwRAIDRebuildDeassert.....	132
6.6.11 hwRAIDRebuildAborted.....	132
6.6.12 hwRAIDRebuildAbortedDeassert.....	133
6.7 hwSysFwProgress.....	133
6.7.1 hwSystemFirmwareHang.....	133
6.7.2 hwSystemFirmwareHangDeassert.....	134
6.7.3 hwPS2USBFault.....	134
6.7.4 hwPS2USBFaultDeassert.....	135
6.7.5 hwVideoControllerFault.....	135
6.7.6 hwVideoControllerFaultDeassert.....	136
6.7.7 hwCPUVoltageMismatch.....	136
6.7.8 hwCPUVoltageMismatchDeassert.....	137
6.8 hwSysEvent.....	138
6.8.1 hwSystemError.....	138
6.8.2 hwSystemErrorDeassert.....	139
6.8.3 hwSysEventInstance.....	139
6.9 hwPowerButton.....	140
6.9.1 hwPowerButtonPressed.....	140
6.10 hwCable.....	140
6.10.1 hwCableStatus.....	140
6.10.2 hwCableStatusDeassert.....	141
6.11 hwSysRestart.....	141
6.11.1 hwSysRestartUnknown.....	141
6.11.2 hwSysRestartChassisCtrl.....	142
6.11.3 hwSysRestartPowerButton.....	142
6.11.4 hwSysRestartWatchdogCtrl.....	143
6.11.5 hwSysRestartAlwaysRestore.....	143
6.11.6 hwSysRestartRestorePrevState.....	144

6.12 hwBootError	144
6.12.1 hwNoBootableMedia	144
6.12.2 hwNoBootableMediaDeassert	145
6.12.3 hwNoBootableDisk	145
6.12.4 hwNoBootableDiskDeassert	146
6.12.5 hwPXENotFound	146
6.12.6 hwPXENotFoundDeassert	147
6.12.7 hwInvalidBootSector	147
6.12.8 hwInvalidBootSectorDeassert	148
6.13 hwDeviceFault	148
6.13.1 hwHardwareAddrFault	148
6.13.2 hwHardwareAddrFaultDeassert	149
6.13.3 hwDeviceInstall	150
6.13.4 hwDeviceInstallDeassert	151
6.13.5 hwEthLinkDown	151
6.13.6 hwEthLinkDownDeassert	152
6.13.7 hwMemBrdMigrate	152
6.13.8 hwMemBrdMigrateDeassert	153
6.13.9 hwPCIEStatus	153
6.13.10 hwPCIEStatusDeassert	154
6.13.11 hwFanFault	154
6.13.12 hwFanFaultDeassert	155
6.13.13 hwPCIEFault	155
6.13.14 hwPCIEFaultDeassert	156
6.14 hwACPIStatus	156
6.14.1 hwACPIStatusS0	156
6.14.2 hwACPIStatusS4S5	157
6.15 hwWatchDog	157
6.15.1 hwWatchDogOverflow	157
6.15.2 hwWatchDogOverflowDeassert	158
6.15.3 hwWatchDogReset	158
6.15.4 hwWatchDogResetDeassert	159
6.15.5 hwWatchDogPowerDown	159
6.15.6 hwWatchDogPowerDownDeassert	160
6.15.7 hwWatchDogPowerCycle	160
6.15.8 hwWatchDogPowerCycleDeassert	161
6.16 hwLANHeartBeat	161
6.16.1 hwLANHeartLost	161
6.16.2 hwLANHeartLostDeassert	162
6.17 hwMngmntHealth	162
6.17.1 hwSensorAccessibleFail	162
6.17.2 hwSensorAccessibleFailDeassert	163

6.17.3 hwControllerAccessibleFail	163
6.17.4 hwControllerAccessibleFailDeassert	164
6.17.5 hwFruFail	164
6.17.6 hwFruFailDeassert	165
6.18 hwBattery	165
6.18.1 hwRTCBatteryLow	165
6.18.2 hwRTCBatteryLowDeassert	166
6.18.3 hwRAIDCardBBUFailed	166
6.18.4 hwRAIDCardBBUFailedDeassert	167
6.18.5 hwRAIDCardBBUPresence	167
6.18.6 hwRAIDCardBBUPresenceDeassert	168
6.19 hwVerChange	168
6.19.1 hwHardwareChange	168
6.19.2 hwFirmwareChange	169
6.20 hwLCD	169
6.20.1 hwLCDFault	169
6.20.2 hwLCDFaultDeassert	170
6.21 hwHotSwap	170
6.21.1 hwHotSwaptom0	170
6.21.2 hwHotSwaptom1	171
6.21.3 hwHotSwaptom2	171
6.21.4 hwHotSwaptom3	172
6.21.5 hwHotSwaptom4	172
6.21.6 hwHotSwaptom5	173
6.21.7 hwHotSwaptom6	173
6.21.8 hwHotSwaptom7	174
6.22 hwIPMBLink	174
6.22.1 hwIPMBLinkStateAll	174
6.22.2 hwIPMBLinkStateAllDeassert	175
6.22.3 hwIPMBLinkStateB	175
6.22.4 hwIPMBLinkStateBDeassert	176
6.22.5 hwIPMBLinkStateA	176
6.22.6 hwIPMBLinkStateADeassert	177
6.22.7 hwIPMBLinkStateNoFault	177
6.23 hwTrapTest	178
6.23.1 hwTrapTestInstance	178
6.24 hwOvertemperature	178
6.24.1 hwOvertempMinor	178
6.24.2 hwOvertempMinorDeassert	179
6.24.3 hwOvertempMajor	179
6.24.4 hwOvertempMajorDeassert	180
6.24.5 hwOvertempCritical	180

6.24.6 hwOvertempCriticalDeassert	181
6.25 hwNoSDCard	181
6.25.1 hwNoSDCardAssert	181
6.25.2 hwNoSDCardDeassert	182
6.26 hwAddInCard	182
6.26.1 hwPCIEError	182
6.26.2 hwPCIEErrorDeassert	183
6.27 hwChipSet	183
6.27.1 hwPCHError	183
6.27.2 hwPCHErrorDeassert	184
6.28 hwUIDButton	184
6.28.1 hwUIDButtonPressed	184
6.29 hwPowerCapping	185
6.29.1 hwPowerCapFail	185
6.29.2 hwPowerCapFailDeassert	185
6.30 hwCardFault	186
6.30.1 hwCardStatusFault	186
6.30.2 hwCardStatusFaultDeassert	186
6.31 hwCPUUsage	187
6.31.1 hwCPUUsageHigh	187
6.31.2 hwCPUUsageHighDeassert	187
6.32 hwMemoryUsage	188
6.32.1 hwMemoryUsageHigh	188
6.32.2 hwMemoryUsageHighDeassert	188
6.33 hwDiskUsage	189
6.33.1 hwDiskUsageHigh	189
6.33.2 hwDiskUsageHighDeassert	189
6.34 hwSysNotice	190
6.34.1 hwSystemWarmReset	190
6.34.2 hwSystemWarmResetDeassert	190
6.35 hwModule	191
6.35.1 hwModuleCritical	191
6.36 hwPSPresenceStatus	191
6.36.1 hwPSPresence	191
6.36.2 hwPSPresenceDeassert	192
6.37 hwFanPresenceStatus	192
6.37.1 hwFanAbsent	192
6.37.2 hwFanAbsentDeassert	193
6.38 hwCardPresenceStatus	193
6.38.1 hwCardPresence	193
6.38.2 hwCardPresenceDeassert	194
6.39 hwLCDPresenceStatus	194

6.39.1 hwLCDAbsent	194
6.39.2 hwLCDAbsentDeassert	195
6.40 hwCPUCore	195
6.40.1 hwCPUCoreIsolation	195
6.40.2 hwCPUCoreIsolationDeassert	196
6.41 hwMemoryRiser	196
6.41.1 hwMemoryRiserOnline	196
6.41.2 hwMemoryRiserOnlineDeassert	197
6.41.3 hwMemoryRiserOffline	197
6.41.4 hwMemoryRiserOfflineDeassert	198
6.41.5 hwMemoryRiserInstallError	198
6.41.6 hwMemoryRiserInstallErrorDeassert	199
6.42 hwVoltage	199
6.42.1 hwLowerVoltageMajor	199
6.42.2 hwLowerVoltageMajorDeassert	200
6.42.3 hwOverVoltageMajor	200
6.42.4 hwOverVoltageMajorDeassert	201
6.42.5 hwOverVoltageCritical	201
6.42.6 hwOverVoltageCriticalDeassert	202
6.43 hwCPUProchot	202
6.43.1 hwCPUProchotState	202
6.43.2 hwCPUProchotStateDeassert	203
6.44 hwSELStatus	203
6.44.1 hwSELCleared	203
6.44.2 hwSELAlmostFull	204
6.44.3 hwSELAlmostFullDeasserted	204
6.45 hwPSRedundancy	205
6.45.1 hwPSRedundancyLost	205
6.45.2 hwPSRedundancyLostDeassert	205
6.46 hwBMCTBootUp	206
6.46.1 hwBMCTBootUp	206
6.47 hwLog	206
6.47.1 hwLogFull	206
6.47.2 hwLogFullDeassert	207
6.48 hwBoardMismatch	207
6.48.1 hwBoardMismatch	207
6.48.2 hwBoardMismatchDeassert	208
A Acronyms and Abbreviations	216

1 Overview

1.1 MIB Feature Summary

1.1.1 Basic Rules

The iBMC supports SNMP V1, V2C, and V3. The MIB implements SNMP features, including managing the following over SNMP:

System status and information, event logs, assets, field replaceable unit (FRU) information, local users, domain name system (DNS), Lightweight Directory Access Protocol (LDAP) information, Simple Mail Transfer Protocol (SMTP) information, network information, power statistics, power capping, and power control

1.1.2 Key Parameter Description

Each node has a unique object identifier (OID). All leaf nodes under the **hwiBMC** node are functional nodes for server management.

1.2 MIB Definition Consistency (MIB Change History)

This issue is the first office release.

1.3 References

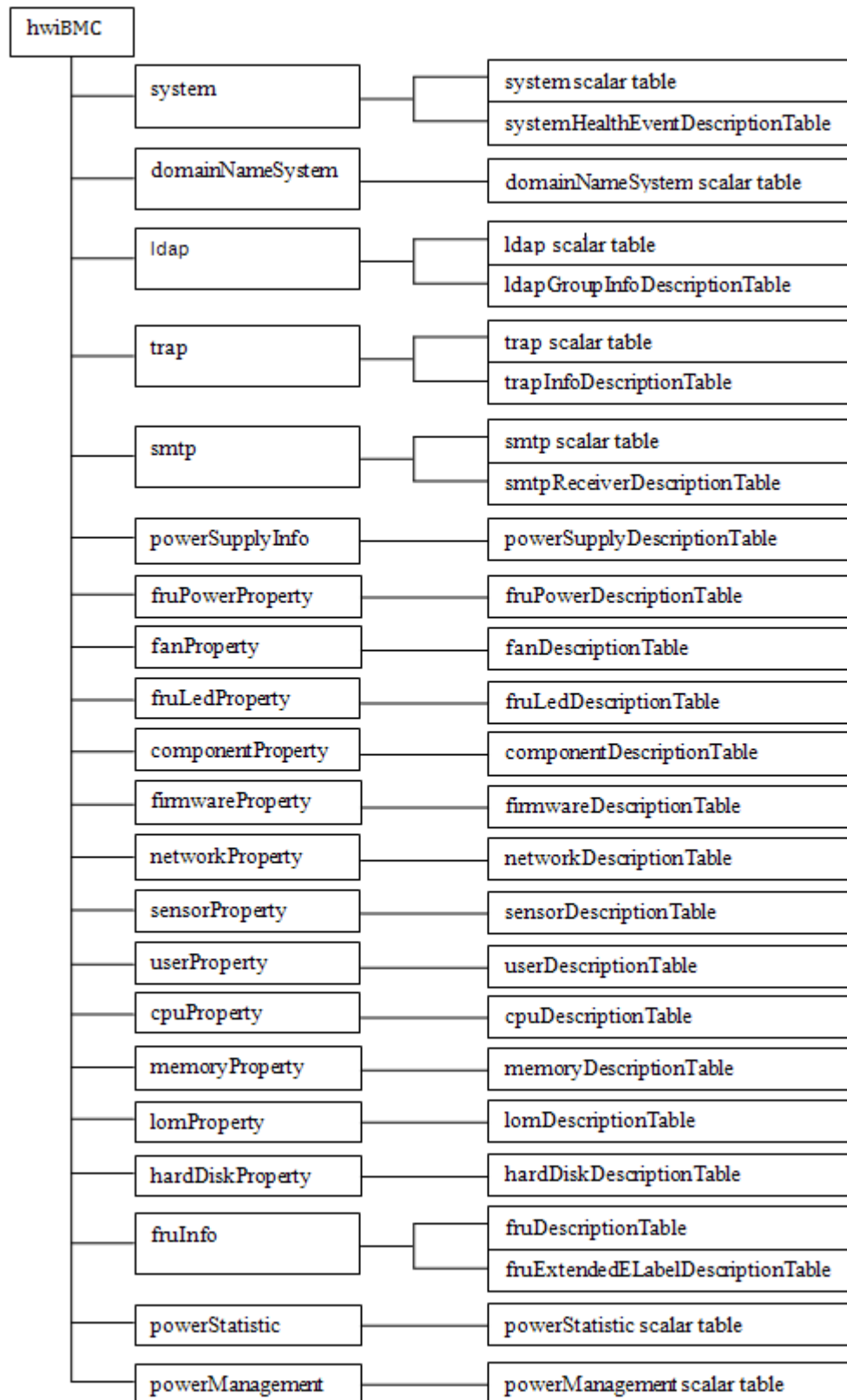
None

2 Table Overview

Tables are categorized as phenotype tables and scalar tables. All nodes in a scalar table are leaf nodes. A scalar table has no index whereas a phenotype table has indexes. The **system**, **domainNameSystem**, **ldap**, **trap**, **smtp**, **powerStatistic**, and **powerManagement** tables are scalar tables. Other tables are phenotype tables. The indexes of these tables are independent of each other.

Figure 2-1 shows the tables in a tree structure.

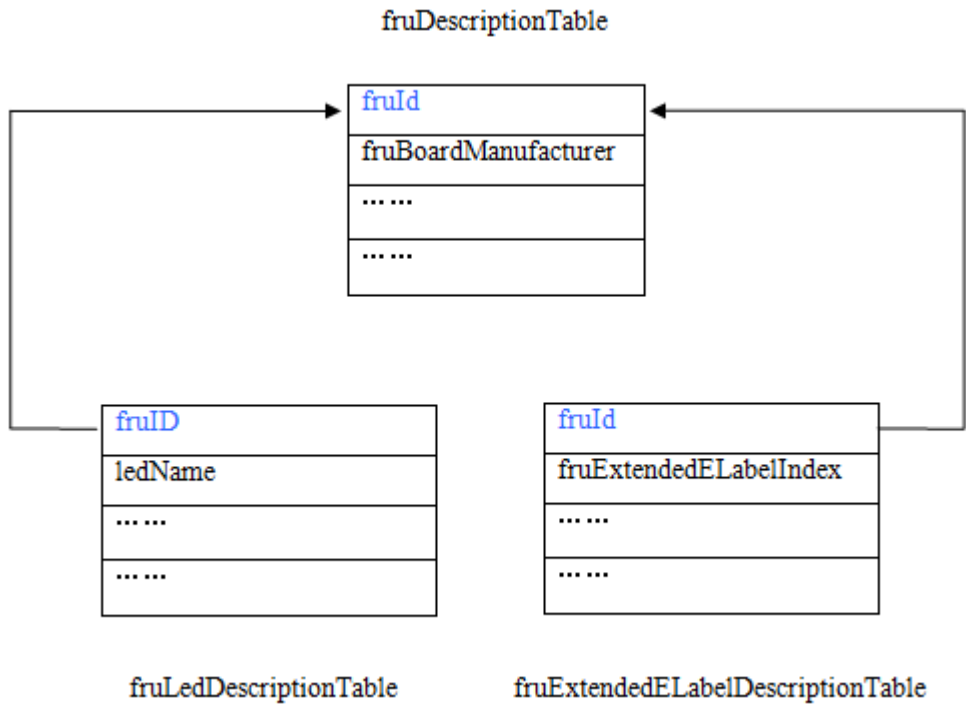
Figure 2-1 Tables in a tree structure



fruInfo consists of the phenotype tables **fruDescriptionTable** and **fruExtendedELabelDescriptionTable**. The indexes of **fruExtendedELabelDescriptionTable** and **fruLedDescriptionTable** are external indexes, and the two tables are dependent on **fruDescriptionTable**.

Figure 2-2 shows the relationships between the tables.

Figure 2-2 Relationships between the tables



3

Information About Common Nodes

Node Name	Node OID Instance	Description	Type	Access
sysDescr	1.3.6.1.2.1.1.1.0	A textual description of the entity. This value should include the full name and version identification of the system's hardware type, software operating-system, and networking software. It is mandatory that this only contain printable ASCII characters.	DisplayString	read-only
sysObjectID	1.3.6.1.2.1.1.2.0	The vendor's authoritative identification of the network management subsystem contained in the entity. This value is allocated within the SMI enterprises subtree (1.3.6.1.4.1) and provides an easy and unambiguous means for determining the type of box that is being managed. For example, if vendor 'Flintstones, Inc.' was assigned the subtree 1.3.6.1.4.1.4242, it could assign the identifier 1.3.6.1.4.1.4242.1.1 to its 'Fred Router'.	OBJECT IDENTIFIER	read-only
sysUptime	1.3.6.1.2.1.1.3.0	The time (in hundredths of a second) since the network management portion of the system was last re-initialized.	TimeTicks	read-only
sysContact	1.3.6.1.2.1.1.4.0	The textual identification of the contact person for this managed node, together with information on how to contact this person.	DisplayString	read-write
sysName	1.3.6.1.2.1.1.5.0	An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified domain name.	DisplayString	read-write
sysLocation	1.3.6.1.2.1.1.6.0	The physical location of this node (e.g., 'telephone closet, 3rd floor').	DisplayString	read-write

Node Name	Node OID Instance	Description	Type	Access
sysServices	1.3.6.1.2.1.1.7.0	A value which indicates the set of services that this entity primarily offers.iBMC is a application.	INTEGER	read-only

4 Common SNMP Error Codes

```
#define UM_COMPLETED_SUCCESS          (0x00000000)
#define UM_ERRCODE_BASE               (0x00030000)
#define UM_ERRCODE_UNKNOW             (UM_ERRCODE_BASE + 0x001)
#define UM_ERRCODE_INVALID_PARA       (UM_ERRCODE_BASE + 0x002)
#define UM_ERRCODE_DENIED_ACCESS      (UM_ERRCODE_BASE + 0x003)
#define UM_ERRCODE_WRONGTYPE          (UM_ERRCODE_BASE + 0x004)
#define UM_ERRCODE_BADVALUE           (UM_ERRCODE_BASE + 0x005)
#define UM_ERRCODE_WRONGFORMAT        (UM_ERRCODE_BASE + 0x006)
#define UM_ERRCODE_APPLY_MEMORY_FAIL  (UM_ERRCODE_BASE + 0x007)
#define UM_ERRCODE_INSTANCE_NOTFOUND  (UM_ERRCODE_BASE + 0x008)
```

5 MIB Table Specifications

The **system**, **domainNameSystem**, **ldap**, **trap**, **smtp**, **powerStatistic**, and **powerManagement** tables are scalar tables. Other tables are phenotype tables.

The operations supported by these tables are as follows:

- All scalar tables support get, walk, get next, get bulk, and set operations.
- The leaf nodes in phenotype tables support get, walk, get next, get bulk, and set operations.

The non-leaf nodes in phenotype tables support walk, get next, and get bulk operations.

5.1 system Specifications

5.1.1 Function Description

The **system** table node allows you to view the system health status, system boot option, system time and time zone, timeout interval for graceful power-off, device name and serial number, power control policy, system name, globally unique identifier (GUID), server identifier, power status, system power, remote OEM information, device location, and device remote management ID.

The OID of the **system** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).system(1)

The following table describes the leaf nodes in the **system** scalar table.

Node Name	Node OID Instance	Description	Type	Access
systemHealth	1.3.6.1.4.1.2011.2.23 5.1.1.1.1.0	System health status. Options: <ul style="list-style-type: none">• 1: ok(1)• 2: minor(2)• 3: major(3)• 4: critical(4)	Integer	read-only

Node Name	Node OID Instance	Description	Type	Access
systemBootsequence	1.3.6.1.4.1.2011.2.23 5.1.1.1.2.0	First boot device of the system. Options: <ul style="list-style-type: none">1: No override2: Force PXE3: Force boot from default Hard-drive4: Force boot from default CD/DVD5: Force boot from Floppy/primary removable media6: boot flags valid. The bit should be set to indicate that valid flag data is present. This bit may be automatically cleared based on the boot flag valid bit clearing parameter, above. (This option is read-only.) The default value is 6 (unspecified).7: Forcibly enter bios setup	Integer	read-write
systemTime	1.3.6.1.4.1.2011.2.23 5.1.1.1.3.0	System time of the baseboard management controller (BMC), based on UTC. The value is in the format of <i>yyyy-mm-dd hh:mm:ss</i> .	Octet String	read-only
systemTimeZone	1.3.6.1.4.1.2011.2.23 5.1.1.1.4.0	BMC time zone, in minutes. The value ranges from -720 to 780 .	Integer	read-write
safepowerofftime	1.3.6.1.4.1.2011.2.23 5.1.1.1.5.0	System safe power-off time. The value 0 indicates non-timeout.	Integer	read-write
deviceName	1.3.6.1.4.1.2011.2.23 5.1.1.1.6.0	The value contains 1 to 63 characters.	DisplayString	read-only
deviceSerialNo	1.3.6.1.4.1.2011.2.23 5.1.1.1.7.0	The value contains 1 to 63 characters.	DisplayString	read-only
powerOnPolicy	1.3.6.1.4.1.2011.2.23 5.1.1.1.8.0	Options: <ul style="list-style-type: none">1: stayoff(1)2: restorePreviousState(2)3: turnon(3)	Integer	read-write
hostName	1.3.6.1.4.1.2011.2.23 5.1.1.1.9.0	The value contains 1 to 64 characters. The value can contain 0-9, a-z, A-Z, - ('-' is not allowed to be the first/last character).	DisplayString	read-write

Node Name	Node OID Instance	Description	Type	Access
systemGuid	1.3.6.1.4.1.2011.2.23 5.1.1.1.10.0	The GUID is a hexadecimal string, for example, *****_*****_*****_*****_***** .	DisplayString	read-only
identify	1.3.6.1.4.1.2011.2.23 5.1.1.1.11.0	Configures an LED to turn on or off. The mode can be one of the following: <ul style="list-style-type: none">• 0 - Off• 1 - Temporary On• 2 - Force Identify On set format: <mode>, [ontime] get format: <mode> [ontime] is optional and its value ranges from 1 to 255. When the value of <mode> is 0 or 2, [ontime] is unavailable. The default value of [ontime] is 15 seconds.	DisplayString	read-write
systemPowerState	1.3.6.1.4.1.2011.2.23 5.1.1.1.12.0	When you perform the get operation for this node, the options are as follows: <ul style="list-style-type: none">• 1 - Power Off• 2 - Power On When you perform the set operation for this node, the options are as follows: <ul style="list-style-type: none">• 1 - Normal Power Off• 2 - Power On• 3 - Forced System Reset• 4 - Forced Power Cycle• 5 - Forced Power Off The setting will take effect in a while. When the system is powered off, the reset, and power off then on commands are not supported.	Integer	read-write
presentSystemPower	1.3.6.1.4.1.2011.2.23 5.1.1.1.13.0	Present power in the system.	Integer	read-only
deviceOwnerID	1.3.6.1.4.1.2011.2.23 5.1.1.1.14.0	Device owner ID. The value can contain a maximum of 64 characters.	Octet String	read-only
deviceSlotID	1.3.6.1.4.1.2011.2.23 5.1.1.1.15.0	Device slot ID. If the device slot ID of a server exists, the value ranges from 1 to 80. Otherwise, the value is 0.	Octet String	read-only

Node Name	Node OID Instance	Description	Type	Access
remoteOEMInfo	1.3.6.1.4.1.2011.2.23 5.1.1.1.16.0	Remote OEM information. The value can contain a maximum of 255 characters.	Octet String	read-write
DeviceLocationInfo	1.3.6.1.4.1.2011.2.23 5.1.1.1.17.0	Device location. The value can contain a maximum of 64 characters.	Octet String	read-write
deviceRemoteManagementID	1.3.6.1.4.1.2011.2.23 5.1.1.1.18.0	Device remote management ID. The value can contain a maximum of 64 characters.	Octet String	read-write
bmcReboot	1.3.6.1.4.1.2011.2.23 5.1.1.1.19.0	Reboots BMC. If you set this parameter, the value must be 1.	Integer	write-only
powerOnPermit	1.3.6.1.4.1.2011.2.23 5.1.1.1.20.0	Power on permission. <ul style="list-style-type: none">1 - not permit2 - permit	Integer	write-only
autoDiscoveryEnable	1.3.6.1.4.1.2011.2.23 5.1.1.1.21.0	Auto discovery enable. <ul style="list-style-type: none">1 - disable2 - enable	Integer	read-write
productUniqueID	1.3.6.1.4.1.2011.2.23 5.1.1.1.22.0	The productUniqueID is hex string	DisplayString	read-only
systemCpuUsage	1.3.6.1.4.1.2011.2.23 5.1.1.1.23.0	Percent of CPU usage.	Integer	read-only
systemBootOnce	1.3.6.1.4.1.2011.2.23 5.1.1.1.24.0	The boot device effect once or permanent.	Integer	read-write

The **systemHealthEventDescriptionEntry** node describes the leaf nodes under the **systemHealthEventDescriptionTable** table node.

The OID of the **systemHealthEventDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).system(1).systemHealthEventDescriptionTable(50).systemHealthEventDescriptionEntry(1)

The following table describes the leaf nodes under the **systemHealthEventDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
eventIndex	1.3.6.1.4.1.2011.2.23 35.1.1.1.50.1.1.x	Event ID.	Integer	not-accessible

Node Name	Node OID Instance	Description	Type	Access
eventSensorName	1.3.6.1.4.1.2011.2.2 35.1.1.1.50.1.2.x	The value contains 1 to 16 characters.	Octet String	read-only
eventAlertTime	1.3.6.1.4.1.2011.2.2 35.1.1.1.50.1.3.x	The value is in the format of yyyy-mm-dd hh:mm:ss, based on UTC	Octet String	read-only
eventAlertSeverity	1.3.6.1.4.1.2011.2.2 35.1.1.1.50.1.4.x	Event severity. Options: <ul style="list-style-type: none">• 1: ok(1)• 2: minor(2)• 3: major(3)• 4: critical(4)	Integer	read-only
eventDescription	1.3.6.1.4.1.2011.2.2 35.1.1.1.50.1.5.x	The value contains 1 to 255 characters.	Octet String	read-only

5.1.2 Constraints on the Create Operation

The create operation is not supported.

5.1.3 Constraints on the Modify Operation

The modify operation is not supported.

5.1.4 Constraints on the Delete Operation

The delete operation is not supported.

5.1.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.1.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- **systemBootsequence**: The value is an integer ranging from 1 to 5, or 7.
- **systemTimeZone**: The value ranges from **-720** to **780** (same as the value range of cli or web).
- **safepowerofftime**: The value range varies according to the product policy.
- **powerOnPolicy**: The value can be **1**, **2**, or **3**.
- **hostName**: The value contains 1 to 64 characters.
- **Identify**: The value is in the format of *[mod],[ontime]*. The value of *mod* is an integer ranging from 0 to 2, and the value of *ontime* ranges from 1 to 255.

5.2 domainNameSystem Specifications

5.2.1 Function Description

domainNameSystem is a table node. Its subnodes **domainName**, **preferredDNSServer**, **alternateDNSServer**, **dnsSource**, and **bindIPProtocol** are leaf nodes.

The OID of the **domainNameSystem** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).domainNameSystem(2)

The following table describes the leaf nodes under the **domainNameSystem** table node.

Node Name	Node OID Instance	Description	Type	Access
domainName	1.3.6.1.4.1.2011.2.235.1.1.2.1.0	The value contains 0 to 67 characters. The value cannot contain spaces and the following characters: " = # ' &	Display String	read-write
preferredDNS Server	1.3.6.1.4.1.2011.2.235.1.1.2.2.0	Preferred DNS server IPv4 or IPv6 address. The value is a correct IP address or empty. The default value is empty.	Display String	read-write
alternateDNSServer	1.3.6.1.4.1.2011.2.235.1.1.2.3.0	Alternate DNS server IPv4 or IPv6 address. The value is a correct IP address or empty. The default value is empty.	Display String	read-write
dnsSource	1.3.6.1.4.1.2011.2.235.1.1.2.4.0	DNS source. Options: <ul style="list-style-type: none">• manual(1)• auto(2)	Integer	read-write
bindNetPort	1.3.6.1.4.1.2011.2.235.1.1.2.5.0	STATUS: obsolete This node is unavailable. The setting of this node has no adverse impact on the system and is not logged.	Integer	read-write
bindIPProtocol	1.3.6.1.4.1.2011.2.235.1.1.2.6.0	DNS bind IP protocol. Options: <ul style="list-style-type: none">• IPv4(1)• IPv6(2)	Integer	read-write

5.2.2 Constraints on the Create Operation

The create operation is not supported.

5.2.3 Constraints on the Modify Operation

The modify operation is not supported.

5.2.4 Constraints on the Delete Operation

The delete operation is not supported.

5.2.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.2.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- **domainName**: The value contains 0 to 67 characters.
- **preferredDNSServer**: The value is an IPv4 or IPv6 address or empty.
- **alternateDNSServer**: The value is an IPv4 or IPv6 address or empty.
- **dnsSource**: The value can be **1** (manually) or **2** (automatically).
- **bindNetPort**: This node is unavailable. The setting of this node has no adverse impact on the system and is not logged.
- **bindIPProtocol**: The value can be **1** (IPv4) or **2** (IPv6)

5.3 ldap Specifications

5.3.1 Function Description

The **ldap** module provides ldap enablement status, domain controller address, user domain, user group name, group domain, and group privilege information. The module consists of three table nodes and ten simple leaf nodes. The table nodes are **ldapGroupInfoDescriptionTable**, **ldapGroupInfoDescriptionTable2**, and **ldapGroupInfoDescriptionTable3**. The ten simple leaf nodes are **LdapEnable**, **ldapDomainServer**, **ldapUserDomain**, **ldapPort**, **ldapDomainServer2**, **ldapUserDomain2**, **ldapPort2**, **ldapDomainServer3**, **ldapUserDomain3**, and **ldapPort3**.

The OIDs of the simple leaf nodes are as follows:

LdapEnable:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapEnable(1)

ldapDomainServer:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapDomainServer(2)

ldapUserDomain:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapUserDomain(3)

ldapPort:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapPort(4)

ldapDomainServer2:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapDomainServer2(5)

ldapUserDomain2:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapUserDomain2(6)

ldapPort2:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapPort2(7)

ldapDomainServer3:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapDomainServer3(8)

ldapUserDomain3:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapUserDomain3(9)

ldapPort3:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapPort3(10)

The following table describes the simple leaf nodes.

Node Name	Node OID Instance	Description	Type	Access
LdapEnable	1.3.6.1.4.1.2011.2.235.1.1.3.1.0	The state of LDAP. Default value is disable(1)	INTEGER	read-write
LdapDomainServer	1.3.6.1.4.1.2011.2.235.1.1.3.2.0	LDAP domain server between 1 to 255 characters. Default value is 0.0.0.0. Max length is 255 characters.	DisplayString	read-write
LdapUserDomain	1.3.6.1.4.1.2011.2.235.1.1.3.3.0	LDAP user domain between 1 to 255 characters. E.g. CN=Users,DC=ldap,DC=ibmc,DC=com.	DisplayString	read-write
LdapPort	1.3.6.1.4.1.2011.2.235.1.1.3.4.0	Specifies the port number for the LDAP service. Value: an	INTEGER	read-write

Node Name	Node OID Instance	Description	Type	Access
		integer ranging from 1 to 65535. The default value is 636.		
ldapDomainServer2	1.3.6.1.4.1.2011.2.235.1.1.3.5.0	LDAP domain server between 1 to 255 characters. Default value is 0.0.0.0. Max length is 255 characters.	DisplayString	read-write
ldapUserDomain2	1.3.6.1.4.1.2011.2.235.1.1.3.6.0	LDAP user domain between 1 to 255 characters. E.g. CN=Users,DC=ldap,DC=ibmc,DC=com.	DisplayString	read-write
ldapPort2	1.3.6.1.4.1.2011.2.235.1.1.3.7.0	Specifies the port number for the LDAP service. Value: an integer ranging from 1 to 65535. The default value is 636.	INTEGER	read-write
ldapDomainServer3	1.3.6.1.4.1.2011.2.235.1.1.3.8.0	LDAP domain server between 1 to 255 characters. Default value is 0.0.0.0. Max length is 255 characters.	DisplayString	read-write
ldapUserDomain3	1.3.6.1.4.1.2011.2.235.1.1.3.9.0	LDAP user domain between 1 to 255 characters. E.g. CN=Users,DC=ldap,DC=ibmc,DC=com.	DisplayString	read-write
ldapPort3	1.3.6.1.4.1.2011.2.235.1.1.3.10.0	Specifies the port number for the LDAP service. Value: an integer ranging from 1 to 65535. The default value is 636.	INTEGER	read-write

The OID of the **ldapGroupInfoDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapGroupInfoDescriptionTable(50)

The **ldapGroupInfoDescriptionEntry** node describes the leaf nodes under the **ldapGroupInfoDescriptionTable** table node.

The OID of the **ldapGroupInfoDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapGroupInfoDescriptionTable(50).ldapGroupInfoDescriptionEntry(1)

The following table describes the leaf nodes under the **ldapGroupInfoDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
groupIndex	1.3.6.1.4.1.2011.2.235.1.1.3.50.1.1.x	LDAP group index. Valuemap("1","2","3","4","5")	INTEGER	not-accessible
groupName	1.3.6.1.4.1.2011.2.235.1.1.3.50.1.2.x	LDAP group name between 0 to 32 characters.	DisplayString	read-write
groupDomain	1.3.6.1.4.1.2011.2.235.1.1.3.50.1.3.x	LDAP group domain between 0 to 255 characters. Example: Group0 CN=group0,DC=ldap,DC=ibmc,DC=com	DisplayString	read-write
groupPrivilege	1.3.6.1.4.1.2011.2.235.1.1.3.50.1.4.x	1 - common user 2 - operator 3 - administrator 4 - customRole1 5 - customRole2 6 - customRole3 7 - customRole4 Default value is commonUser(1).	INTEGER	read-write
groupInterfaces	1.3.6.1.4.1.2011.2.235.1.1.3.50.1.5.x	Information about LDAP group login interfaces. bit0 - Web: 0 disabled; 1 enabled bit3 - SSH: 0 disabled; 1 enabled bit7 - Redfish: 0 disabled; 1 enabled	INTEGER	read-write

The OID of the **ldapGroupInfoDescriptionTable2** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapGroupInfoDescriptionTable(51)

The **ldapGroupInfoDescriptionEntry2** node describes the leaf nodes under the **ldapGroupInfoDescriptionTable2** table node.

The OID of the **ldapGroupInfoDescriptionEntry2** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapGroupInfoDescriptionTable(51).ldapGroupInfoDescriptionEntry(1)

The following table describes the leaf nodes under the **ldapGroupInfoDescriptionTable2** table node.

Node Name	Node OID Instance	Description	Type	Access
groupIndex2	1.3.6.1.4.1.201 1.2.235.1.1.3.5 1.1.1.x	LDAP group index. Valuemap("1","2","3","4","5")	INTEGER	not-accessible
groupName2	1.3.6.1.4.1.201 1.2.235.1.1.3.5 1.1.2.x	LDAP group name between 0 to 32 characters.	DisplayString	read-write
groupPrivilege2	1.3.6.1.4.1.201 1.2.235.1.1.3.5 1.1.3.x	1 - common user 2 - operator 3 - administrator 4 - customRole1 5 - customRole2 6 - customRole3 7 - customRole4 Default value is commonUser(1).	INTEGER	read-write
groupInterfaces2	1.3.6.1.4.1.201 1.2.235.1.1.3.5 1.1.4.x	Information about LDAP group login interfaces. bit0 - Web: 0 disabled; 1 enabled bit3 - SSH: 0 disabled; 1 enabled bit7 - Redfish: 0 disabled; 1 enabled	INTEGER	read-write
groupDomain2	1.3.6.1.4.1.201 1.2.235.1.1.3.5 1.1.5.x	LDAP group domain between 0 to 255 characters. Example: Group0 CN=group0,DC=ldap,DC=ibmc, DC=com	DisplayString	read-write

The OID of the **ldapGroupInfoDescriptionTable3** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapGroupInfoDescriptionTable(52)

The **ldapGroupInfoDescriptionEntry3** node describes the leaf nodes under the **ldapGroupInfoDescriptionTable3** table node.

The OID of the **ldapGroupInfoDescriptionEntry3** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).ldap(3).ldapGroupInfoDescriptionTable(52).ldapGroupInfoDescriptionEntry(1)

The following table describes the leaf nodes under the **ldapGroupInfoDescriptionTable3** table node.

Node Name	Node OID Instance	Description	Type	Access
groupIndex3	1.3.6.1.4.1.2011.2.235.1.1.3.52.1.1.x	LDAP group index. Valuemap("1","2","3","4","5")	INTEGER	not-accessible
groupName3	1.3.6.1.4.1.2011.2.235.1.1.3.52.1.2.x	LDAP group name between 0 to 32 characters.	DisplayString	read-write
groupPrivilege3	1.3.6.1.4.1.2011.2.235.1.1.3.52.1.3.x	1 - common user 2 - operator 3 - administrator 4 - customRole1 5 - customRole2 6 - customRole3 7 - customRole4 Default value is commonUser(1).	INTEGER	read-write
groupInterfaces3	1.3.6.1.4.1.2011.2.235.1.1.3.52.1.4.x	Information about LDAP group login interfaces. bit0 - Web: 0 disabled; 1 enabled bit3 - SSH: 0 disabled; 1 enabled bit7 - Redfish: 0 disabled; 1 enabled	INTEGER	read-write
groupDomain3	1.3.6.1.4.1.2011.2.235.1.1.3.51.1.5.x	LDAP group domain between 0 to 255 characters. Example: Group0 CN=group0,DC=ldap,DC=ibmc,DC=com	DisplayString	read-write

5.3.2 Constraints on the Create Operation

The create operation is not supported.

5.3.3 Constraints on the Modify Operation

The modify operation is not supported.

5.3.4 Constraints on the Delete Operation

The delete operation is not supported.

5.3.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.3.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- **ldapEnable**: The value is **1** (disable) or **2** (enable).
- **ldapDomainServer**: The value is an IPv4 address or domain name. The value contains 1 to 255 characters.
- **ldapUserDomain**: The value contains 1 to 255 characters.
- **groupName**: The value contains 0 to 32 characters.
- **groupDomain**: The value contains 1 to 255 characters.
- **groupPrivilege**: The value can be **1** (common user), **2** (operator), **3** (administrator), **4**(customRole1), **5**(customRole2), **6**(customRole3), **7**(customRole4)
- **groupInterfaces**: The value is consist of bits: bit0(Web),bit3(SSH)

5.4 trap Specifications

5.4.1 Function Description

The simple nodes of the **trap** module allow you to view and set the trap function status (enabled or disabled), trap community name, level of traps to be sent, trap mode, trap version, trap identifier, detailed level of traps to be sent, and trap v3 user name. The table node of the **trap** module describes trap information, and the leaf nodes allow you to view and set the trap receiving status (enabled or disabled), address and port number for receiving traps, and trap type.

The OID of the **trapInfoDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).trap(4)

The following table describes the leaf nodes in the **trap** scalar table.

Node Name	Node OID Instance	Description	Type	Access
trapEnable	1.3.6.1.4.1.2011.2.235.1.1.4.1.0	Whether to enable the trap function. Options: <ul style="list-style-type: none">• 1: disable(1)• 2: enable(2)	Integer	read-write

Node Name	Node OID Instance	Description	Type	Access
trapCommunity	1.3.6.1.4.1.2011.2.2 35.1.1.4.2.0	SNMP trap community. The value contains 1 to 18 characters. The value cannot contain spaces.	Display String	write-only
trapLevel	1.3.6.1.4.1.2011.2.2 35.1.1.4.3.0	Level of traps to be sent. Options: <ul style="list-style-type: none">• 1: ok(1)• 2: minor(2)• 3: major(3)• 4: critical(4) The default value is minor(2) .	Integer	read-write
trapMode	1.3.6.1.4.1.2011.2.2 35.1.1.4.4.0	Trap mode <ul style="list-style-type: none">• eventCodeMode(1)• trapOidMode(2)	Integer	read-write
trapVersion	1.3.6.1.4.1.2011.2.2 35.1.1.4.5.0	Trap version: <ul style="list-style-type: none">• 1: v1(1)• 2: v2c(2)• 3: v3(3)	Integer	read-write
trapRearm	1.3.6.1.4.1.2011.2.2 35.1.1.4.6.0	Send rearm command. Value list: 1: rearm(1)	INTEGER	write-only
trapServerIdentity	1.3.6.1.4.1.2011.2.2 35.1.1.4.7.0	Server identity used for sending traps. <ul style="list-style-type: none">• boardSN(1)• productAssetTag(2)• hostName(3)	Integer	read-write
trapSecurityUserName	1.3.6.1.4.1.2011.2.2 35.1.1.4.8.0	Security user name for SNMP trap V3. The user must be a BMC local user.	Display String	read-write

Node Name	Node OID Instance	Description	Type	Access
trapLevelDetail	1.3.6.1.4.1.2011.2.2.35.1.1.4.9.0	Level of traps to be sent. You can set or get any combination of the four alarm levels (critical, major, minor, normal), which are separated by commas (.). None/all is also supported, but never use it with the four levels together.	Display String	read-write

The **trapInfoDescriptionEntry** node describes the leaf nodes under the **trapInfoDescriptionTable** table node. The OID of the **trapInfoDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).trap(4).trapInfoDescriptionTable(50).trapInfoDescriptionEntry(1)

The following table describes the leaf nodes under the **trapInfoDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
trapReceiverIndex	1.3.6.1.4.1.2011.2.235.1.1.4.50.1.1.x	Trap receiver index.	Integer	not-accessible
trapReceiverEnable	1.3.6.1.4.1.2011.2.235.1.1.4.50.1.2.x	Options: <ul style="list-style-type: none">1: disable(1)2: enable(2)	Integer	read-write
trapReceiverAddress	1.3.6.1.4.1.2011.2.235.1.1.4.50.1.3.x	Trap Receiver IPv4 or IPv6 address. The default value is empty.	Display String	read-write
trapReceiverPort	1.3.6.1.4.1.2011.2.235.1.1.4.50.1.4.x	Trap receiver port.	Integer	read-write
trapSendType	1.3.6.1.4.1.2011.2.235.1.1.4.50.1.5.x	1: snmpTrap(1) This node is reserved and has a fixed value of 1. The setting of this node has no adverse impact on the system and is not logged.	Integer	read-write
trapTest	1.3.6.1.4.1.2011.2.235.1.1.4.50.1.6.x	Test whether SNMP traps or syslog information can be	Integer	write-only

Node Name	Node OID Instance	Description	Type	Access
		received. When you perform the set operation, the value can only be 1.		

5.4.2 Constraints on the Create Operation

The create operation is not supported.

5.4.3 Constraints on the Modify Operation

The modify operation is not supported.

5.4.4 Constraints on the Delete Operation

The delete operation is not supported.

5.4.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.4.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- **trapEnable**: The value is **1** (disabled) or **2** (enabled).
- **trapCommunity**: The value contains 1 to 18 characters.
- **trapLevel**: The value can be **1** (all events, including normal events), **2** (minor or more severe events), **3** (major or more severe events), or **4** (critical events).
- **trapVersion**: The value can be **1-v1** or **2-v2c**.
- **trapMode**: The value can be **1** (eventCodeMode) or **2** (trapOidMode).
- **trapServerIdentity**: The value can be **1** (boardSN), **2** (productAssetTag), or **3** (hostName).
- **trapLevelDetail**: The value can be any combination of the four alarm severities (**critical**, **major**, **minor**, **ok** which are separated by commas (,). The value can also be set to none/all.
- **trapReceiverEnable**: The value is **1** (disabled) or **2** (enabled).
- **trapReceiverAddress**: The value is an IPv4 or IPv6 address or empty.
- **trapReceiverPort**: The value is an SNMP trap port number, and the default value is 162.
- **trapSendType**: This node is reserved and has a fixed value of **1**. The setting of this node has no adverse impact on the system and is not logged.
- **trapTest**: The value has a fixed value of **1**.

5.5 smtp Specifications

5.5.1 Function Description

The **smtp** module allows you to view or configure information about the Simple Mail Transfer Protocol (SMTP) server and target SMTP recipients.

The OID of the **smtp** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).smtp(5)

The following table describes the leaf nodes in the **smtp** scalar table.

Node Name	Node OID Instance	Description	Type	Access
smtpEnable	1.3.6.1.4.1.2011.2.2 35.1.1.5.1.0	Whether to enable SMTP. Options: <ul style="list-style-type: none">• 1: disable(1)• 2: enable(2) The default value is disable(1) .	Integer	read-write
smtpSendSeverity	1.3.6.1.4.1.2011.2.2 35.1.1.5.2.0	Severity of alarms to be sent by an SMTP server. Options: <ul style="list-style-type: none">• 1: ok(1)• 2: minor(2)• 3: major(3)• 4: critical(4) The default value is ok(1) .	Integer	read-write
smtpServerIP	1.3.6.1.4.1.2011.2.2 35.1.1.5.3.0	SMTP server IP address.	Display String	read-write
smtpLoginType	1.3.6.1.4.1.2011.2.2 35.1.1.5.4.0	SMTP login type. Options: <ul style="list-style-type: none">• 1: anonymous(1)• 2: account(2)	Integer	read-write
smtpLoginAccount	1.3.6.1.4.1.2011.2.2 35.1.1.5.5.0	The value contains 1 to 64 characters. The value cannot contain spaces and the following characters: " = # ' &	Display String	read-write
smtpLoginPassword	1.3.6.1.4.1.2011.2.2 35.1.1.5.6.0	Set user login SMTP password. The value contains 1 to	Display String	write-only

Node Name	Node OID Instance	Description	Type	Access
		50 characters.		
smtpSendFrom	1.3.6.1.4.1.2011.2.2.35.1.1.5.7.0	The value contains 0 to 255 characters. The value cannot contain spaces and the following characters: " = # ' & The value must be in the format of xx@xxx.xx	Display String	read-write
smtpTLSEnable	1.3.6.1.4.1.2011.2.2.35.1.1.5.8.0	The TLS state for SMTP. Default value is enable (2) [1: disable(1), 2: enable(2)]	INTEGER	read-write
smtpSendSeverityDetail	1.3.6.1.4.1.2011.2.2.35.1.1.5.9.0	Severity of SMTP traps to be sent. The value can be any combination of the four alarm severities (critical, major, minor, and info), which are separated by commas (.). None/all is also supported, but never use it with the four alarm severities together.	Display String	read-write

The **smtpReceiverDescriptionEntry** node describes the leaf nodes under the **smtpReceiverDescriptionTable** table node. The OID of the **smtpReceiverDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).smtp(5).smtpReceiverDescriptionTable(50).smtpReceiverDescriptionEntry(1)

The following table describes the leaf nodes under the **smtpReceiverDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
smtpReceiverIndex	1.3.6.1.4.1.2011.2.235.1.1.5.50.1.1.x	Receiver index.	Integer	not-accessible
smtpReceiverState	1.3.6.1.4.1.2011.2.235.1.1.5.50.1.2.x	SMTP receiver status. Options: <ul style="list-style-type: none">• Disable 1• Enable 2	Integer	read-write
smtpReceiver	1.3.6.1.4.1.2011.2.235	The value contains 0 to	Display	read-write

Node Name	Node OID Instance	Description	Type	Access
Address	.1.1.5.50.1.3.x	255 characters. The value cannot contain spaces and the following characters: " = # ' &	String	
smtpReceiverDescription	1.3.6.1.4.1.2011.2.235 .1.1.5.50.1.4.x	The value contains 0 to 255 characters.	Display String	read-write
smtpReceiverTest	1.3.6.1.4.1.2011.2.235 .1.1.5.50.1.5.x	Whether to send a test email to the specified email address. When you perform the set operation, the value can only be 1.	Integer	write-only

5.5.2 Constraints on the Create Operation

The create operation is not supported.

5.5.3 Constraints on the Modify Operation

The modify operation is not supported.

5.5.4 Constraints on the Delete Operation

The delete operation is not supported.

5.5.5 Constraints on the Query Operation

The get, get next, walk, and get bulk operations are supported.

5.5.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- **smtpEnable**: The value is **1** (disabled) or **2** (enabled).
- **smtpSendSeverity**: The value can be **1** (all events, including OK events), **2** (minor or more severe events), **3** (major or more severe events), or **4** (critical events).
- **smtpServerIP**: The value is an IPv4 or IPv6 address or empty.
- **smtpLoginType**: The value is **1** (anonymous) or **2** (account).
- **smtpLoginAccount**: The value contains 1 to 64 characters.
- **smtpLoginPassword**: The value contains 1 to 50 characters.
- **smtpSendFrom**: The value contains 0 to 255 characters, and the default value is **default@test.com**.

- **smtpSendSeverityDetail:** The value can be any combination of the four alarm severities (**critical**, **major**, **minor**, and **info**), which are separated by commas (.). The value can also be set to none/all.
- **smtpReceiverState:** The value can be **1** (disabled) or **2** (enabled), and the default value is **2**.
- **smtpReceiverAddress:** The value contains 0 to 255 characters, and the default value is empty.
- **smtpReceiverDescription:** The value contains 0 to 255 characters.
- **smtpReceiverTest:** indicates the test email recipient. The value can only be **1**, which indicates that the specified address for receiving emails is set.

5.6 powerSupplyInfo Specifications

5.6.1 Function Description

The **powerSupplyInfo** table node allows you to:

- View the overall health status of PSUs
- View and set the working mode
- Perform an active/standby switchover
- Obtain the following information about each PSU:
Manufacturer, power input mode, model, version, rated power, input power, installation status, silkscreen, and working mode.

The OID of the **powerSupplyInfo** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).powerSupplyInfo(6)

The following table describes the leaf nodes under the **powerSupplyInfo** table node.

Node Name	Node OID Instance	Description	Type	Access
powerSupplyEntireStatus	1.3.6.1.4.1.2011.2.235.1.1.6.1.0	All power supply health status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only
settedPowerSupplyEntireMode	1.3.6.1.4.1.2011.2.235.1.1.6.2.0	Setted power supply entire mode. Power supply entire mode get: <ul style="list-style-type: none">• 1:loadBalance(1)• 2:activeBackup(2)	Integer	read-write

Node Name	Node OID Instance	Description	Type	Access
		<ul style="list-style-type: none">3:unsupport(3) Power supply entire mode set: <ul style="list-style-type: none">1:loadBalance(1)2:activeBackup(2)		
actualPowerSupplyEntireMode	1.3.6.1.4.1.2011.2.235.1.1.6.3.0	Actual power supply entire mode. <ul style="list-style-type: none">1: loadBalance(1)2:activeBackup(2)3: unknown(3)	Integer	read-only
settedActivePowerSupply	1.3.6.1.4.1.2011.2.235.1.1.6.4.0	Setted active power supply. per bit represents a PS, bit0 is PS1, and so on, the bit value of 1 indicates the PS is active.can not set all PS are active or backup. The result 0x7FFFFFFF is unsupport.	Integer	read-write

The **powerSupplyDescriptionEntry** node describes the leaf nodes under the **powersupplydescriptiontable** table node. The OID of the **powerSupplyDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).powerSupplyInfo(6).powerSupplyDescriptionTable(50).powerSupplyDescriptionEntry(1)

The following table describes the leaf nodes under the **powersupplydescriptiontable** table node.

Node Name	Node OID Instance	Description	Type	Access
powerSupplyIndex	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.1.x	PSU index.	Integer	not-accessible
powerSupplymanufacturer	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.2.x	PSU manufacturer.	DisplayString	read-only
powerSupplyInputMode	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.3.x	Power input mode. Options: <ul style="list-style-type: none">acInput(1)dcInput(2)acInputDcInput(3)	Integer	read-only
powerSupplyModel	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.4.x	PSU model.	DisplayString	read-only
powerSupplyVersion	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.5.x	PSU version.	DisplayString	read-only

Node Name	Node OID Instance	Description	Type	Access
powerSupplyPowerRating	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.6.x	Power rating, in watts.	Integer	read-only
powerSupplyStatus	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.7.x	PSU status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only
powerSupplyInputPower	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.8.x	Input power, in watts.	Integer	read-only
powerSupplyPresence	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.9.x	PSU installation status. Options: <ul style="list-style-type: none">• absence(1)• presence(2)• unknown(3)	Integer	read-only
powerSupplyProtocol	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.10.x	Power protocol. Options: <ul style="list-style-type: none">• psmi(1)• pmbus(2)	Integer	read-only
powerSupplyLocation	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.11.x	PSU physical location.	DisplayString	read-only
powerSupplyFunction	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.12.x	PSU logic function.	DisplayString	read-only
powerSupplyDeviceName	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.13.x	PSU device name.	DisplayString	read-only
powerSupplyWorkMode	1.3.6.1.4.1.2011.2.235.1.1.6.50.1.14.x	Actual working mode of each PSU. Options: <ul style="list-style-type: none">• 1: active(1)• 2: backup(2)• 3: unknown(3)	Integer	read-only

5.6.2 Constraints on the Create Operation

The create operation is not supported.

5.6.3 Constraints on the Modify Operation

The modify operation is not supported.

5.6.4 Constraints on the Delete Operation

The delete operation is not supported.

5.6.5 Constraints on the Query Operation

The get, get next, walk, and get bulk operations are supported.

5.6.6 Constraints on the Set Operation

The set operation is not supported.

5.7 fruPowerProperty Specifications

5.7.1 Function Description

The **fruPowerProperty** table allows you to view and set FRU power status. You can power on, power off, restart, or gracefully restart an FRU.

The OID of the **fruPowerDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruPowerProperty(7).fruPowerDescriptionTable(50)

The **fruPowerDescriptionEntry** node describes the leaf nodes under the **fruPowerDescriptionTable** table node. The OID of the **fruPowerDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruPowerProperty(7).fruPowerDescriptionTable(50).fruPowerDescriptionEntry(1)

The following table describes the leaf nodes under the **fruPowerDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
fruNum	1.3.6.1.4.1.2011.2.235.1.1.7.50.1.1.1	Index of the FRU power.	Integer	not-accessible
fruPowerControl	1.3.6.1.4.1.2011.2.235.1.1.7.50.1.2.1	FRU power control. <ul style="list-style-type: none">normalPowerOff (1)powerOn(2)forcedSystemReset (3)forcedPowerCycle (4)	Integer	read-write

5.7.2 Constraints on the Create Operation

The create operation is not supported.

5.7.3 Constraints on the Modify Operation

The modify operation is not supported.

5.7.4 Constraints on the Delete Operation

The delete operation is not supported.

5.7.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.7.6 Constraints on the Set Operation

The **fruPowerControl** node supports the set operation. The value can be **1** (normal power off), **2** (power on), **3** (forced system reset), or **4** (forced power cycle).

5.8 fanProperty Specifications

5.8.1 Function Description

The **fanProperty** table node allows you to view or configure fan information, including:

- Control mode, rotational speed percentage, and overall health status of fans
- Rotational speed (RPM), installation status, and silkscreen of each fan

The **fanProperty** table node is unavailable for blade servers.

The OID of the **fanProperty** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fanProperty(8)

The following table describes the leaf nodes under the **fanProperty** table node.

Node Name	Node OID Instance	Description	Type	Access
fanMode	1.3.6.1.4.1.2011.2.235.1.1.8.1.0	Fan control mode. fan mode: <ul style="list-style-type: none">0 - auto1 - manual set format: <mode>, [timeout] get format: <mode>, [timeout] [timeout] is optional and its value ranges from 0 to 300, in seconds. The default value of [timeout] is 30 seconds. When the value of <mode> is 0, [timeout] is unavailable.	DisplayString	read-write
fanLevel	1.3.6.1.4.1.2011.2.235.1.1.8.2.0	Percentage of fan speed. This value ranges from <i>MIN_FANLEVEL</i> to 100. <i>MIN_FANLEVEL</i> is the minimum fan level, which varies according to the system. When you perform the get operation, 255 indicates that the fan mode is auto.	Integer	read-write
fanEntireStatus	1.3.6.1.4.1.2011.2.235.1.1.8.3.0	All fan health status. Options: <ul style="list-style-type: none">ok(1)minor(2)major(3)critical(4)absence(5)unknown(6)	Integer	read-only

The **fanDescriptionEntry** node describes the leaf nodes under the **fanDescriptionTable** table node. The OID of the **fanDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fanProperty(8).fanDescriptionTable(50).fanDescriptionEntry(1)

The following table describes the leaf nodes under the **fanDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
fanIndex	1.3.6.1.4.1.2011.2.235.1.1.8.50.1.1.x	Fan index.	Integer	not-accessible
fanSpeed	1.3.6.1.4.1.2011.2.235.1.1.8.50.1.2.x	Fan speed, in RPM.	Integer	read-only

Node Name	Node OID Instance	Description	Type	Access
fanPresence	1.3.6.1.4.1.2011.2.235.1.1.8.50.1.3.x	Fan installation status. Options: <ul style="list-style-type: none"> • absence(1) • presence(2) • unknown(3) 	Integer	read-only
fanStatus	1.3.6.1.4.1.2011.2.235.1.1.8.50.1.4.x	Fan health status. Options: <ul style="list-style-type: none"> • ok(1) • minor(2) • major(3) • critical(4) • absence(5) • unknown(6) 	Integer	read-only
fanLocation	1.3.6.1.4.1.2011.2.235.1.1.8.50.1.5.x	Fan physical location.	Display String	read-only
fanFunction	1.3.6.1.4.1.2011.2.235.1.1.8.50.1.6.x	Fan logic function.	Display String	read-only
fanDeviceName	1.3.6.1.4.1.2011.2.235.1.1.8.50.1.7.x	Fan device name.	Display String	read-only

5.8.2 Constraints on the Create Operation

The create operation is not supported.

5.8.3 Constraints on the Modify Operation

The modify operation is not supported.

5.8.4 Constraints on the Delete Operation

The delete operation is not supported.

5.8.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.8.6 Constraints on the Set Operation

The set operation is not supported.

5.9 fruLedProperty Specifications

5.9.1 Function Description

The **fruLedProperty** table node allows you to view LED properties, including:

LED name, supported colors, default local control color, default override color, color, status, action, duration when an LED is on, and duration when an LED is off

The OID of the **fruLedProperty** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruLedProperty(9)

The **fruLedDescriptionEntry** node describes the leaf nodes under the **fruLedDescriptionTable** table node. The OID of the **fruLedDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruLedProperty(9).fruLedDescriptionTable(50).fruLedDescriptionEntry(1)

The following table describes the leaf nodes under the **fruLedDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
fruID	1.3.6.1.4.1.2011.2.235.1.1.9.50.1.1.0.6.85.73.68.76.101.100:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9.50.1.1.0.10.83.121.115.72.101.97.108.76.101.100:SysHealthLed	FRU index.	Integer	not-accessible
ledName	1.3.6.1.4.1.2011.2.235.1.1.9.50.1.2.0.6.85.73.68.76.101.100:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9.50.1.2.0.10.83.121.115.72.101.97.108.76.101.100:SysHealthLed	FRU LED index.	Display String	read-only
ledColorCapabilities	1.3.6.1.4.1.2011.2.235.1.1.9.50.1.3.0.6.85.73.68.76.101.100:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9.50.1.3.0.10.83.121.115.72.101.97.108.76.101.100:SysHealthLed	LED capability: BLUE, RED, GREEN, AMBER, ORANGE, WHITE. The return value is separated by commas (,).	Display String	read-only
ledColorInLocalControlState	1.3.6.1.4.1.2011.2.235.1.1.9.50.1.4.0.6.85.73.68.76.101.100:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9.	LED control state: BLUE, RED, GREEN, AMBER,	Display String	read-only

Node Name	Node OID Instance	Description	Type	Access
	50.1.4.0.10.83.121.115.72.10 1.97.108.76.101.100:SysHea lLed	ORANGE, WHITE.		
ledColorInOv errideState	1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.5.0.6.85.73.68.76.101.1 00:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.5.0.10.83.121.115.72.10 1.97.108.76.101.100:SysHea lLed	LED override: BLUE, RED, GREEN, AMBER, ORANGE, WHITE.	Display String	read-only
ledColor	1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.6.0.6.85.73.68.76.101.1 00:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.6.0.10.83.121.115.72.10 1.97.108.76.101.100:SysHea lLed	LED color. Options: <ul style="list-style-type: none">• BLUE• RED• GREEN• AMBER• ORANGE• WHITE	Display String	read-only
ledMode	1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.7.0.6.85.73.68.76.101.1 00:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.7.0.10.83.121.115.72.10 1.97.108.76.101.100:SysHea lLed	LED mode. Options: <ul style="list-style-type: none">• localControl(1)• override(2)• test(3)	Integer	read-only
ledStatus	1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.8.0.6.85.73.68.76.101.1 00:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.8.0.10.83.121.115.72.10 1.97.108.76.101.100:SysHea lLed	LED status. Options: <ul style="list-style-type: none">• off(1)• on(2)• blinking(3)	Integer	read-only
ledLitOnLast Time	1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.9.0.6.85.73.68.76.101.1 00:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.9.0.10.83.121.115.72.10 1.97.108.76.101.100:SysHea lLed	Unit: 10 ms (blinking), 100 ms (test) Range: (1–250) x 10 ms (blinking) (1–127) x 100 ms (test)	Integer	read-only
ledLitOffLast Time	1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.10.0.6.85.73.68.76.101. 100:UIDLed 1.3.6.1.4.1.2011.2.235.1.1.9. 50.1.10.0.10.83.121.115.72.1 01.97.108.76.101.100:SysHe	Unit: 10 ms (blinking) Range: (1–250) x 10 ms (blinking)	Integer	read-only

Node Name	Node OID Instance	Description	Type	Access
	allLed			

5.9.2 Constraints on the Create Operation

The create operation is not supported.

5.9.3 Constraints on the Modify Operation

The modify operation is not supported.

5.9.4 Constraints on the Delete Operation

The delete operation is not supported.

5.9.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.9.6 Constraints on the Set Operation

The set operation is not supported.

5.10 componentProperty Specifications

5.10.1 Function Description

The **componentProperty** table node allows you to view component information.

The **componentDescriptionEntry** node describes the leaf nodes under the **componentDescriptionTable** table node. The OID of the **componentDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwBMC(1).componentProperty(10).componentDescriptionTable(50).componentDescriptionEntry(1)

The following table describes the leaf nodes under the **componentDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
componentName	1.3.6.1.4.1.2011.2.2 35.1.1.10.50.1.1.0	Component name.	Display String	read-only
componentType	1.3.6.1.4.1.2011.2.2 35.1.1.10.50.1.2.0	Component type. <ul style="list-style-type: none">baseBoard(1)mezzCard(2)	Integer	read-only

Node Name	Node OID Instance	Description	Type	Access
		<ul style="list-style-type: none"> • amcController (3) • mmcController (4) • hddBackPlane(5) • raidCard(6) 		
componentPCB Version	1.3.6.1.4.1.2011.2.2 35.1.1.10.50.1.3.0	PCB version.	Display String	read-only
componentBoard ID	1.3.6.1.4.1.2011.2.2 35.1.1.10.50.1.4.0	Board ID.	Display String	read-only
componentStatus	1.3.6.1.4.1.2011.2.2 35.1.1.10.50.1.5.0	Board health status. Options: <ul style="list-style-type: none"> • ok(1) • minor(2) • major(3) • critical(4) • absence(5) • unknown(6) 	Integer	read-only

5.10.2 Constraints on the Create Operation

The create operation is not supported.

5.10.3 Constraints on the Modify Operation

The modify operation is not supported.

5.10.4 Constraints on the Delete Operation

The delete operation is not supported.

5.10.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.10.6 Constraints on the Set Operation

The set operation is not supported.

5.11 firmwareProperty Specifications

5.11.1 Function Description

The **firmwareProperty** table node allows you to view firmware information, including the firmware name, type, release date, version, and location.

The OID of the **firmwareProperty** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).firmwareProperty(11)

The **firmwareDescriptionEntry** node describes the leaf nodes under the **firmwareDescriptionTable** table node. The OID of the **firmwareDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).firmwareProperty(11).firmwareDescriptionTable(50).firmwareDescriptionEntry(1)

The following table describes the leaf nodes under the **firmwareDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
firmwareName	1.3.6.1.4.1.2011.2.23 5.1.1.11.50.1.1.x	Firmware name. The value contains 0 to 50 characters.	Display String	read-only
firmwareType	1.3.6.1.4.1.2011.2.23 5.1.1.11.50.1.2.x	Firmware type. Options: <ul style="list-style-type: none">• iBMC(1)• fpga(2)• cpld(3)• bios(4)• uboot(5)• lcd(6)	Integer	read-only
firmwareRelease Date	1.3.6.1.4.1.2011.2.23 5.1.1.11.50.1.3.x	Firmware release date. The value is in the format of yyyy-mm-dd hh:mm:ss.	Display String	read-only
firmwareVersion	1.3.6.1.4.1.2011.2.23 5.1.1.11.50.1.4.x	Firmware version. The value contains 0 to 50 characters.	Display String	read-only
firmwareLocation	1.3.6.1.4.1.2011.2.23 5.1.1.11.50.1.5.x	Firmware location. The value contains 0 to 20 characters.	Display String	read-only
fruNumber	1.3.6.1.4.1.2011.2.23	Information about	INTEG	read-only

Node Name	Node OID Instance	Description	Type	Access
	5.1.1.11.50.1.6.x	FRU id.	ER	
firmwareBoard	1.3.6.1.4.1.2011.2.23 5.1.1.11.50.1.7.x	Information about firmware board, value between 0 to 50 characters.	Display String	read-only

5.11.2 Constraints on the Create Operation

The create operation is not supported.

5.11.3 Constraints on the Modify Operation

The modify operation is not supported.

5.11.4 Constraints on the Delete Operation

The delete operation is not supported.

5.11.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.11.6 Constraints on the Set Operation

The set operation is not supported.

5.12 networkProperty Specifications

5.12.1 Function Description

networkProperty is a table node. Its subnodes **ethNum**, **ethIPAddress**, **ethNetmask**, **ethDefaultGateway**, **ethIPSource**, **ethMACAddress**, **ethType**, **ethHostPort**, **ethEnable** (abandoned), **ethMode**, **vlanID**, **ethInfo** and **ethIPv4Enable** are leaf nodes. The **networkProperty** table node allows you to view and set network information for management and sideband network ports.

The OID of the **networkProperty** table node is as follows:

```
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).networkProperty(12)
```

The **networkDescriptionEntry** node describes the leaf nodes under the **networkDescriptionTable** table node. The OID of the **networkDescriptionEntry** node is as follows:

```
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).networkProperty(12).networkDescriptionTable(50).networkDescriptionEntry(1)
```

The following table describes the leaf nodes under the **networkDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
ethNum	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.1.1	Ethernet number.	Integer	not-accessible
ethIPAddress	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.2.1	Ethernet IPv4 address.	IpAddress	read-write
ethNetmask	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.3.1	Netmask.	IpAddress	read-write
ethDefaultGateway	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.4.1	Default gateway.	IpAddress	read-write
ethIPSource	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.5.1	IP source. Options: <ul style="list-style-type: none">static(1)dhcp(2)	Integer	read-write
ethMACAddress	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.6.1	MAC address.	DisplayString	read-only
ethType	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.7.1	Ethernet port type. Options: <ul style="list-style-type: none">mgmt(1)share(2)	Integer	read-only
ethHostPort	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.8.1	Share Ethernet bound host port. Options: <ul style="list-style-type: none">none(1)port1(2)port2(3)port3(4)port4(5)	Integer	read-write
ethEnable	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.9.1	STATUS: obsolete This node is unavailable. The setting of this node has no adverse impact on the system and is not logged.	Integer	read-write
ethMode	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.10.1	Network mode.	Integer	read-write
vlanID	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.11.1	Whether to disable or enable a VLAN and set an ID.	DisplayString	read-write

Node Name	Node OID Instance	Description	Type	Access
ethInfo	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.12.1	Sets the IP address, subnet mask, and gateway address. For example, 192.168.2.100, 255.255.255.0, 192.168.2.1.	Display String	read-write
ethIPv4Enable	1.3.6.1.4.1.2011.2.235.1.1.12.50.1.13.1	Information about eth IPv4 enabled. disable(1),enable(2)	INTEGER	read-write

5.12.2 Constraints on the Create Operation

The create operation is not supported.

5.12.3 Constraints on the Modify Operation

The modify operation is not supported.

5.12.4 Constraints on the Delete Operation

The delete operation is not supported.

5.12.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.12.6 Constraints on the Set Operation

The set operation is supported.

ethEnable: This node is unavailable. The setting of this node has no adverse impact on the system and is not logged.

5.13 sensorProperty Specifications

5.13.1 Function Description

The **sensorProperty** module allows you to view sensor information.

The **userDescriptionEntry** node describes the leaf nodes under the **userDescriptionTable** table node. The OID of the **userDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).sensorProperty(13).sensorDescriptionTable(50).sensorDescriptionEntry(1)

The following table describes the leaf nodes under the **sensorProperty** table node.

Node Name	Node OID Instance	Description	Type	Access
sensorName	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.1.x	Sensor name.	DisplayString	read-only
sensorReading	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.2.x	Sensor reading.	DisplayString	read-only
sensorUpperNonRecoverable	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.3.x	Sensor upper non-recoverable threshold.	DisplayString	read-only
sensorUpperCritical	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.4.x	Sensor upper critical threshold.	DisplayString	read-only
sensorUpperMinor	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.5.x	Sensor upper minor threshold.	DisplayString	read-only
sensorLowerNonRecoverable	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.6.x	Sensor lower non-recoverable threshold.	DisplayString	read-only
sensorLowerCritical	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.7.x	Sensor lower critical threshold.	DisplayString	read-only
sensorLowerMinor	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.8.x	Sensor lower minor threshold.	DisplayString	read-only
sensorStatus	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.9.x	Sensor status.	DisplayString	read-only
sensorType	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.10.x	Sensor type.	Integer	read-only
sensorPositiveHysteresis	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.11.x	Positive-going threshold hysteresis value. Set it to 00h if a sensor does not support positive-going threshold hysteresis. This value is subtracted from positive going thresholds to determine the point where the asserted status for that threshold will clear. See section 35.13.2 "Hysteresis and Event Status" and section 35.13.3 "High-going versus Low-going Threshold Events."	Integer	read-only
sensorNegativeHysteresis	1.3.6.1.4.1.2011.2.235.1 .1.13.50.1.12.x	Negative-going threshold hysteresis value. This value is added to negative going thresholds to determine the point where the asserted status for that threshold will clear. Set it to 00h if the sensor does not support the negative-going threshold hysteresis.	Integer	read-only

Node Name	Node OID Instance	Description	Type	Access
sensorPositiveHysteresisString	1.3.6.1.4.1.2011.2.235.1.1.13.50.1.13.x	Positive-going threshold hysteresis value. Set it to na if sensor does not support positive-going threshold hysteresis. This value is subtracted from positive going thresholds to determine the point where the asserted status for that threshold will clear. See section 35.13.2 "Hysteresis and Event Status" and section 35.13.3 "High-going versus Low-going Threshold Events."	DisplayString	read-only
sensorNegativeHysteresisString	1.3.6.1.4.1.2011.2.235.1.1.13.50.1.14.x	Negative-going threshold hysteresis value. This value is added to negative going thresholds to determine the point where the asserted status for that threshold will clear. Set it to 'na' if sensor does not support negative-going threshold hysteresis.	DisplayString	read-only
sensorUnit	1.3.6.1.4.1.2011.2.235.1.1.13.50.1.15.x	Information about sensor unit. unspecified(0) degrees-c(1) degrees-f(2) degrees-k(3) volts(4) amps(5) watts(6) rpm(18)	INTEGER	read-only
sensorEventReadingType	1.3.6.1.4.1.2011.2.235.1.1.13.50.1.16.x	Information about event reading type.	INTEGER	read-only

5.13.2 Constraints on the Create Operation

The create operation is not supported.

5.13.3 Constraints on the Modify Operation

The modify operation is not supported.

5.13.4 Constraints on the Delete Operation

The delete operation is not supported.

5.13.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.13.6 Constraints on the Set Operation

The set operation is not supported.

5.14 userProperty Specifications

5.14.1 Function Description

The **userProperty** module allows you to view or configure local user information, including the user name, status (enabled or disabled), ID, password, and group. This module also allows you to delete user information.

The OID of the **userDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).userProperty(14).userDescriptionTable(50)

The **userDescriptionEntry** node describes the leaf nodes under the **userDescriptionTable** table node. The OID of the **userDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).userProperty(14).userDescriptionTable(50).userDescriptionEntry(1)

The following table describes the leaf nodes under the **userDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
userID	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.1.x	User ID. The value ranges from 2 to 17 .	Integer	not-accessible
userEnable	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.2.x	Whether a user is enabled. Options: <ul style="list-style-type: none">1: disable2: enable	Integer	read-write
userName	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.3.x	User name length is 1 to 16 characters. The value can contain letters, digits, and special characters. The value cannot contain spaces, double quotation and the following	Display String	read-write

Node Name	Node OID Instance	Description	Type	Access
		special characters: , \ : < > & ' / %, and cannot start with a number sign (#).		
userPassword	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.4.x	User password. The value contains 1 to 20 characters.	Display String	read-write
userGroupID	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.5.x	User group ID. When set, this vaule will be one of the following:(1, 2, 3, 5, 6, 7, 8).. Options: <ul style="list-style-type: none">• 1 - common user• 2 - operator• 3 - administrator• 4 - no access (available only for the get operation).• 5 - custom role1• 6 - custom role2• 7 - custom role3• 8 - custom role4.	Integer	read-write
userDelete	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.6.x	Deletes user information.	Integer	read-write
userInterfaces	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.7.x	Information about user login interfaces. bit0 - Web: 0 disabled; 1 enabled bit1 - SNMP: 0 disabled; 1 enabled bit2 - IPMI: 0 disabled; 1 enabled bit3 - SSH: 0 disabled; 1 enabled bit4 - SFTP: 0 disabled; 1 enabled bit6 - Local: 0 disabled; 1 enabled bit7 - Redfish: 0 disabled; 1 enabled	Integer	read-write
userPublickey Add	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.8	Add PublicKey, The set format is:	Display String	read-write

Node Name	Node OID Instance	Description	Type	Access
	.x	<publickey file>], with max length 256.		
userPublicKey Delete	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.9.x	Delete PublicKey	Display String	read-write
userPublicKey Hash	1.3.6.1.4.1.2011.2.235.1.1.14.50.1.10.x	PublicKey Hash,	Display String	read-only

5.14.2 Constraints on the Create Operation

The create operation is not supported.

5.14.3 Constraints on the Modify Operation

The modify operation is not supported.

5.14.4 Constraints on the Delete Operation

The delete operation is not supported.

5.14.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.14.6 Constraints on the Set Operation

The set operation is supported.

- **userEnable**: The value is **1** (disabled) or **2** (enabled).
- **userName**: The value contains 1 to 16 characters. The value can contain letters, digits, and special characters. The value cannot contain spaces, double quotation and the following special characters: , \ : < > & ' / %, and cannot start with a number sign (#).
- **userPassword**: The value contains 1 to 20 characters.
- **userGroupID**: identifies a user group. This vaule will be one of the following:(**1, 2, 3, 5, 6, 7, 8**).
- **userDelete**: deletes a user. The value can only be **1**.
userInterfaces: The value is consist of bits:
bit0(Web),bit1(SNMP),bit2(IPMI),bit3(SSH),bit4(SFTP), bit6(Local) ,bit7(Redfish)

5.15 cpuProperty Specifications

5.15.1 Function Description

The **cpuProperty** module allows you to view CPU information of the service system.

cpuDescriptionTable is a table node, and its subnodes **cpuManufacturer**, **cpuFamily**, **cpuType**, **cpuClockRate**, **cpuStatus**, **cpuAvailability**, and **silkscreen** are leaf nodes.

The OID of the **cpuDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).cpuProperty(15).cpuDescriptionTable(50)

The following table describes the leaf node under the **cpuProperty** module.

Node Name	Node OID Instance	Description	Type	Access
cpuEntireStatus	1.3.6.1.4.1.2011.2.235.1.1.15.1.0	All CPU health status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only

The **cpuDescriptionEntry** node describes the leaf nodes under the **cpuDescriptionTable** table node. The OID of the **cpuDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).cpuProperty(15).cpuDescriptionTable(50).cpuDescriptionEntry(1)

The following table describes the leaf nodes under the **cpuDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
cpuIndex	1.3.6.1.4.1.2011.2.235.1.1.15.50.1.1.x	CPU index.	Integer	not-accessible
cpuManufacturer	1.3.6.1.4.1.2011.2.235.1.1.15.50.1.2.x	CPU manufacturer.	Display String	read-only
cpuFamily	1.3.6.1.4.1.2011.2.235.1.1.15.50.1.3.x	CPU family.	Display String	read-only
cpuType	1.3.6.1.4.1.2011.2.235.1.1.15.50.1.4.x	CPU type.	Display String	read-only
cpuClockRate	1.3.6.1.4.1.2011.2.235.1.1.15.50.1.5.x	CPU clock rate.	Display String	read-only

Node Name	Node OID Instance	Description	Type	Access
cpuStatus	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.6.x	CPU health status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only
cpuAvailability	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.7.x	Information about CPU availability. unknown(1) disabled(2) backup(3) active(4)	Integer	read-only
cpuLocation	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.8.x	CPU physical location.	Display String	read-only
cpuFunction	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.9.x	CPU logic function.	Display String	read-only
cpuDevicename	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.10.x	CPU devicename.	Display String	read-only
cpuProcessorID	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.11.x	CPU processor ID	Display String	read-only
cpuCoreCount	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.12.x	CPU core count	INTEGER	read-only
cpuThreadCount	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.13.x	CPU thread count	INTEGER	read-only
cpuMemoryTechnology	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.14.x	CPU memory technology	Display String	read-only
cpuL1Cache_K	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.15.x	CPU L1 cache	INTEGER	read-only
cpuL2Cache_K	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.16.x	CPU L2 cache	INTEGER	read-only
cpuL3Cache_K	1.3.6.1.4.1.2011.2.235.1.1. 15.50.1.17.x	CPU L3 cache	INTEGER	read-only

5.15.2 Constraints on the Create Operation

The create operation is not supported.

5.15.3 Constraints on the Modify Operation

The modify operation is not supported.

5.15.4 Constraints on the Delete Operation

The delete operation is not supported.

5.15.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.15.6 Constraints on the Set Operation

The set operation is not supported.

5.16 memoryProperty Specifications

5.16.1 Function Description

The **memoryProperty** module allows you to view the slot number, logical channel, manufacturer, capacity, frequency, and silkscreen of each dual in-line memory module (DIMM).

The OID of the **memoryProperty** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).memoryProperty(16)

The following table describes the leaf node under the **memoryProperty** table node.

Node Name	Node OID Instance	Description	Type	Access
memoryEntireStatus	1.3.6.1.4.1.2011.2.235.1.1.16.1.0	All memory health status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only

The **memoryDescriptionEntry** node describes the leaf nodes under the **memoryDescriptionTable** table node. The OID of the **memoryDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).memoryProperty(16).memoryDescriptionTable(50).memoryDescriptionEntry(1)

The following table describes the leaf nodes under the **memoryDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
memoryDimmIndex	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.1.x	DIMM index.	Integer	not-accessible
memoryLogic	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.2.x	Memory logical channel.	Display String	read-only
memoryManufacturer	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.3.x	Memory manufacturer.	Display String	read-only
memorySize	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.4.x	Memory capacity, in MB.	Display String	read-only
memoryClockRate	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.5.x	Memory clock rate, in MHz.	Integer	read-only
memoryStatus	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.6.x	Memory health status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only
memoryAvailability	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.7.x	Information about memory availability unknown(1) disabled(2) backup(3) active(4)	Integer	read-only
memoryLocation	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.8.x	Memory physical location.	Display String	read-only
memoryFunction	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.9.x	Memory logic function.	Display String	read-only
memoryDeviceName	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.10.x	Memory device name.	Display String	read-only
memoryType	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.11.x	Memory type	Display String	read-only

Node Name	Node OID Instance	Description	Type	Access
memorySN	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.12.x	Memory SN	Display String	read-only
memoryMinimumVoltage	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.13.x	Memory minimum voltage	INTEGER	read-only
memoryRank	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.14.x	Memory rank	INTEGER	read-only
memoryBitWidth	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.15.x	Memory bit width	INTEGER	read-only
memoryTechnology	1.3.6.1.4.1.2011.2.235.1.1.16.50.1.16.x	Memory technology	Display String	read-only

5.16.2 Constraints on the Create Operation

The create operation is not supported.

5.16.3 Constraints on the Modify Operation

The modify operation is not supported.

5.16.4 Constraints on the Delete Operation

The delete operation is not supported.

5.16.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.16.6 Constraints on the Set Operation

The set operation is not supported.

5.17 lomProperty Specifications

5.17.1 Function Description

The **lomProperty** module allows you to view the MAC addresses of LANs on motherboard (LOMs).

The OID of the **lomProperty** table node is as follows:

```
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).lomProperty(17)
```

The **lomDescriptionEntry** node describes the leaf nodes under the **lomDescriptionTable** table node. The OID of the **lomDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).lomProperty(17).lomDescriptionTable(50).lomDescriptionEntry(1)

The following table describes the leaf nodes under the **lomDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
lomIndex	1.3.6.1.4.1.2011.2.235.1.1.17.50.1.1.x	LOM index.	Integer	not-accessible
lomMACAddress	1.3.6.1.4.1.2011.2.235.1.1.17.50.1.2.x	LOM MAC address.	DisplayString	read-only

5.17.2 Constraints on the Create Operation

The create operation is not supported.

5.17.3 Constraints on the Modify Operation

The modify operation is not supported.

5.17.4 Constraints on the Delete Operation

The delete operation is not supported.

5.17.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.17.6 Constraints on the Set Operation

The set operation is not supported.

5.18 hardDiskProperty Specifications

5.18.1 Function Description

The **hardDiskProperty** module allows you to view hard disk information, including the installation status and silkscreen of each hard disk.

The OID of the **hardDiskProperty** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hardDiskProperty(18)

The following table describes the leaf node under the **hardDiskProperty** table node.

Node Name	Node OID Instance	Description	Type	Access
hardDiskEntire Status	1.3.6.1.4.1.2011.2.235.1.1.18.1.0	All hard disk health status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only

The **hardDiskDescriptionEntry** node describes the leaf nodes under the **hardDiskDescriptionTable** table node. The OID of the **hardDiskDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).hardDiskProperty(18).hardDiskDescriptionTable(50).hardDiskDescriptionEntry(1)

The following table describes the leaf nodes under the **hardDiskDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
hardDiskIndex	1.3.6.1.4.1.2011.2.235.1.1.18.50.1.1.x	Hard disk index.	Integer	not-accessible
hardDiskPresence	1.3.6.1.4.1.2011.2.235.1.1.18.50.1.2.x	Hard disk installation status. Options: <ul style="list-style-type: none">• absence(1)• presence(2)• unknown(3)	Integer	read-only
hardDiskStatus	1.3.6.1.4.1.2011.2.235.1.1.18.50.1.3.x	Hard disk health status. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only
hardDiskLocation	1.3.6.1.4.1.2011.2.235.1.1.18.50.1.4.x	Hard disk physical location.	Display String	read-only

Node Name	Node OID Instance	Description	Type	Access
hardDiskFunction	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.5.x	Hard disk logic function.	Display String	read-only
hardDiskDeviceName	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.6.x	Hard disk device name.	Display String	read-only
hardDiskSerialNumber	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.7.x	Hard disk serial number.	Display String	read-only
hardDiskModelNumber	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.8.x	Hard disk model number.	Display String	read-only
hardDiskManufacturer	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.9.x	Hard disk manufacturer.	Display String	read-only
hardDiskFwState	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.10.x	Hard disk firmware status unconfigured-good(1) unconfigured-bad(2) hot-spare(3) offline(4) failed(5) rebuild(6) online(7) copyback(8) jbod(9) unconfigured-shielded(10) hot-spare-shielded(11) configured-shielded(12) foreign(13) unknown(255)	INTEGER	read-write
hardDiskFwVersion	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.11.x	Hard disk firmware version	Display String	read-only
hardDiskCapacityInGB	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.12.x	Hard disk capacity (GB)	INTEGER	read-only
hardDiskMediaType	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.13.x	Hard disk media type	INTEGER	read-only
hardDiskInterfaceType	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.14.x	Hard disk interface type. SAS, SATA...etc	INTEGER	read-only
hardDiskPowerState	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.15.x	Hard disk power state	INTEGER	read-only
hardDiskRebuild	1.3.6.1.4.1.2011.2.2	Hard disk rebuild	INTEGER	read-only

Node Name	Node OID Instance	Description	Type	Access
Progress	35.1.1.18.50.1.16.x	progress (0 - 100%)	ER	
hardDiskPatrolReadStatus	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.17.x	Hard disk patrol read status	INTEGER	read-only
hardDiskCapableSpeedInMbps	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.18.x	Hard disk maximum supported speed	INTEGER	read-only
hardDiskNegotiatedSpeedInMbps	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.19.x	Hard disk negotiated speed	INTEGER	read-only
hardDiskTemperature	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.20.x	Hard disk temperature (in Celsius)	INTEGER	read-only
hardDiskSASAddr1	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.21.x	Hard disk SAS address 1	Display String	read-only
hardDiskSASAddr2	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.22.x	Hard disk SAS address 2	Display String	read-only
hardDiskPrefailState	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.23.x	Hard disk prefail state	INTEGER	read-only
hardDiskHotSpareState	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.24.x	Hard disk hot spare state none(1) global(2) dedicated(3) commissioned(4) emergency(5) unknown(255)	INTEGER	read-write
hardDiskRemnantWearout	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.25.x	Hard disk remnant wearout (100% - 0). Only valid for SSD	INTEGER	read-only
hardDiskMediaErrorCount	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.26.x	Hard disk media error count	INTEGER	read-only
hardDiskPrefailErrorCount	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.27.x	Hard disk prefail error count	INTEGER	read-only
hardDiskOtherErrorCount	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.28.x	Hard disk other error count	INTEGER	read-only
hardDiskLocationState	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.29.x	Hard disk location state. unknown(1) off(2) on(3)	INTEGER	read-write
hardDiskCapacityInMB	1.3.6.1.4.1.2011.2.2 35.1.1.18.50.1.30.x	Hard disk capacity (MB)	INTEGER	read-only

5.18.2 Constraints on the Create Operation

The create operation is not supported.

5.18.3 Constraints on the Modify Operation

The modify operation is not supported.

5.18.4 Constraints on the Delete Operation

The delete operation is not supported.

5.18.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.18.6 Constraints on the Set Operation

The set operation is supported.

hardDiskFwState: The values which can be set are online(7), offline(4), unconfigured-good(1), jbod(9).

1. If current value is online(7), it can be set to offline(4).
2. If current value is offline(4), it can be set to online(7).
3. If current value is unconfigured-good(1), it can be set to jbod(9). The JBOD of RAID controller must be enabled first.
4. If current value is jbod(9), it can be set to unconfigured-good(1),The JBOD of RAID controller must be enabled first.

hardDiskHotSpareState: The values which can be set are none(1),global(2),dedicated(3).

1. none(1): Cancel hot spare, can be set when hardDiskHotSpareState is Global/Dedicated.
2. global(2): Global hot spare, can be set only when hardDiskFwState = Unconfigured Good.
3. dedicated(3):Dedicated hot spare, can be set only when hardDiskFwState = Unconfigured Good and logical drive ID of which is spare should be specified.

The argument format is,

Bit 31-24	Bit 23-16	Bit 15-8	Bit 7-0
0	0	0	1: none
0	0	0	2: global
0	0	logical drive ID	3: dedicated

For example:

Set this hard disk as dedicated hot spare for logical drive 2, the setting value should be

$$0x0203 = 2 * 256 + 3 = 515$$

hardDiskLocationState: The values which can be set are off(2), on(3).

1. off(2): Start locating.
2. on(3): Stop locating.

5.19 fruInfo Specifications

5.19.1 Function Description

The **fruInfo** module allows you to view FRU asset information.

The **fruInfo** module consists of two tables: **fruDescriptionTable** and **fruExtendedELabelDescriptionTable**.

The OID of the **fruDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruInfo(19).fruDescriptionTable(50)

The **fruDescriptionEntry** node describes the leaf nodes under the **fruDescriptionTable** table node. The OID of the **fruDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruInfo(19).fruDescriptionTable(50).fruDescriptionEntry(1)

The following table describes the leaf nodes under the **fruDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
fruId	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.1.x	FRU ID.	Integer	not-accessible
fruBoardManufacturer	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.2.x	FRU board manufacturer.	Display String	read-only
fruBoardProductName	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.3.x	FRU board product name.	Display String	read-only
fruBoardSerialNumber	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.4.x	FRU board serial number.	Display String	read-only
fruBoardPartNumber	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.5.x	FRU board part number.	Display String	read-only
fruBoardMfgDate	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.6.x	FRU board manufacturing date.	Display String	read-only
fruBoardFileID	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.7.x	FRU board file ID.	Display String	read-only
fruProductManufacturer	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.8.x	FRU product manufacturer.	Display String	read-only
fruProductName	1.3.6.1.4.1.2011.2.235	FRU product	Display	read-only

Node Name	Node OID Instance	Description	Type	Access
	.1.1.19.50.1.9.x	name.	String	
fruProductSerialNumber	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.10.x	FRU product serial number.	Display String	read-only
fruProductPartNumber	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.11.x	FRU product part number.	Display String	read-only
fruProductVersion	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.12.x	FRU product version.	Display String	read-only
fruProductAssetTag	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.13.x	FRU product asset tag.	Display String	read-only
fruProductFileID	1.3.6.1.4.1.2011.2.235 .1.1.19.50.1.14.x	FRU product file ID.	Display String	read-only

The OID of the **fruExtendedELabelDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruInfo(19).fruExtendedELabelDescriptionTable(60)

The **fruExtendedELabelDescriptionEntry** node describes the leaf nodes under the **fruExtendedELabelDescriptionTable** table node. The OID of the **fruExtendedELabelDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).fruInfo(19).fruExtendedELabelDescriptionTable(60).fruExtendedELabelDescriptionEntry(1)

The following table describes the leaf nodes under the **fruExtendedELabelDescriptionTable** table node.x: 1-6

Node Name	Node OID Instance	Description	Type	Access
fruid	1.3.6.1.4.1.2011.2.235 .1.1.19.60.1.1.x	FRU ID.	Integer	not-accessible
fruExtendedELabelIndex	1.3.6.1.4.1.2011.2.235 .1.1.19.60.1.2.x	FRU extended E-label index.	Integer	read-only
fruExtendedELabelInfo	1.3.6.1.4.1.2011.2.235 .1.1.19.60.1.3.x	Format: key=value	DisplayString	read-only

5.19.2 Constraints on the Create Operation

The create operation is not supported.

5.19.3 Constraints on the Modify Operation

The modify operation is not supported.

5.19.4 Constraints on the Delete Operation

The delete operation is not supported.

5.19.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

The default timeout period for the **snmpTable** command is 1 second. When using the **snmpTable** command to obtain these table nodes, you need to set the **-t** parameter to 3 seconds or longer to avoid timeout. When performing the walk operation, you need also to set the timeout period to 3 seconds or longer by using the MIB browser.

5.19.6 Constraints on the Set Operation

Neither the **fruDescriptionTable** node nor the **fruExtendedELabelDescriptionTable** node supports the set operation.

5.20 powerStatistic Specifications

5.20.1 Function Description

The **powerStatistic** module allows you to view the peak system power, time when the system power reaches the peak, average historical power, accumulated power consumption, and power statistics start time. This module also allows you to delete all power statistics.

The OID of the **powerStatistic** table node is as follows:

```
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).powerStatistic(20)
```

The following table describes the leaf nodes under the **powerStatistic** table node.

Node Name	Node OID Instance	Description	Type	Access
peakPower	1.3.6.1.4.1.2011.2.23 5.1.1.20.1.0	Peak system power.	Display String	read-only
peakPowerOccurTime	1.3.6.1.4.1.2011.2.23 5.1.1.20.2.0	Time when the system power reaches the peak, based on UTC.	Display String	read-only
averagePower	1.3.6.1.4.1.2011.2.23 5.1.1.20.3.0	Average system power.	Display String	read-only
powerConsumption	1.3.6.1.4.1.2011.2.23 5.1.1.20.4.0	Power consumption from the power statistical start time.	Display String	read-only
powerStatisticStartTime	1.3.6.1.4.1.2011.2.23 5.1.1.20.5.0	Start time of power statistics,	Display String	read-only

Node Name	Node OID Instance	Description	Type	Access
		based on UTC. The value is in the format of <i>yyyy-mm-dd</i> <i>hh:mm:ss</i> .		
clearPowerStatistic	1.3.6.1.4.1.2011.2.23 5.1.1.20.6.0	Deletes all power statistics.	Integer	write-only

5.20.2 Constraints on the Create Operation

The create operation is not supported.

5.20.3 Constraints on the Modify Operation

The modify operation is not supported.

5.20.4 Constraints on the Delete Operation

The delete operation is not supported.

5.20.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.20.6 Constraints on the Set Operation

The set operation is supported.

clearPowerStatistic: deletes all power statistics(1)

5.21 powerManagement Specifications

5.21.1 Function Description

The **powerManagement** module allows you to view or configure the power capping status (enabled or disabled), power cap, and action taken when power capping fails.

The OID of the **powerManagement** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).powerManagement(23)

The following table describes the leaf nodes under the **powerManagement** table node.

Node Name	Node OID Instance	Description	Type	Access
powerCappingEnable	1.3.6.1.4.1.2011.2.235.1.1.23.1.0	Power capping status. Options: <ul style="list-style-type: none">• Disable(1)• Enable(2)	Integer	read-write
powerCappingValue	1.3.6.1.4.1.2011.2.235.1.1.23.2.0	Power cap. The value ranges from 1 to 9999 .	Integer	read-write
powerCappingFailureAction	1.3.6.1.4.1.2011.2.235.1.1.23.3.0	System action taken when power capping fails. Options: <ul style="list-style-type: none">• eventlog(1)• eventlogAndPowerOff (2) The default value is eventlog(1) .	Integer	read-write

5.21.2 Constraints on the Create Operation

The create operation is not supported.

5.21.3 Constraints on the Modify Operation

The modify operation is not supported.

5.21.4 Constraints on the Delete Operation

The delete operation is not supported.

5.21.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.21.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- **powerCappingEnable**: indicates the power capping status. The value can be **1** (disabled) or **2** (enabled).
- **powerCappingValue**: indicates the power cap. The value ranges from **1** to **9999**.
- **powerCappingFailureAction**: The value can be **1** (eventlog) or **2** (eventlogAndPowerOff).

5.22 pCIEDeviceProperty Specifications

5.22.1 Function Description

The **pCIEDeviceProperty** module allows you to view Peripheral Component Interconnect Express (PCIe) device information of a server.

pCIEDeviceDescriptionTable is a table node, and its subnodes **pCIEDeviceIndex**, **pCIEDevicePresence**, **pCIEDeviceStatus**, **pCIEAvailability**, **pCIEDeviceLocation**, **pCIEDeviceFunction**, **pCIEDeviceDevicename**, **pCIEDeviceVID**, **pCIEDeviceDID**, **pCIEDeviceManufacturer** and **pCIEDeviceDescription** are leaf nodes.

The OID of the **pCIEDeviceDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiMana(1).pCIEDeviceProperty(24).pCIEDeviceDescriptionTable(50)

The following table describes the leaf node under the **pCIEDeviceProperty** module.

Node Name	Node OID Instance	Description	Type	Access
pCIEDeviceEntireStatus	1.3.6.1.4.1.2011.2.235.1.1.24.1.0	Health status of all PCIe devices. Options: <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only

The **pCIEDeviceDescriptionEntry** node describes the leaf nodes under the **pCIEDeviceDescriptionTable** table node. The OID of the **pCIEDeviceDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).pCIEDeviceProperty(24).pCIEDeviceDescriptionTable(50).pCIEDeviceDescriptionEntry(1)

The following table describes the leaf nodes under the **pCIEDeviceDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
pCIEDeviceIndex	1.3.6.1.4.1.2011.2.235.1.1.24.50.1.1.x	PCIe device index.	Integer	not-accessible
pCIEDevicePresence	1.3.6.1.4.1.2011.2.235.1.1.24.50.1.2.x	PCIe device installation status. <ul style="list-style-type: none">• absence(1)	Integer	read-only

Node Name	Node OID Instance	Description	Type	Access
		<ul style="list-style-type: none">• presence(2)• unknown(3)		
pCieDeviceStatus	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.3.x	Information about PCIe health status. <ul style="list-style-type: none">• ok(1)• minor(2)• major(3)• critical(4)• absence(5)• unknown(6)	Integer	read-only
pCieAvailability	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.4.x	Information about PCIe availability. <ul style="list-style-type: none">• unknown(1)• disabled(2)• backup(3)• active(4)	Integer	read-only
pCieDeviceLocation	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.5.x	PCIe physical location.	Display String	read-only
pCieDeviceFunction	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.6.x	PCIe logic function.	Display String	read-only
pCieDeviceDeviceName	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.7.x	PCIe device name.	Display String	read-only
pCieDeviceVID	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.8.x	PCIe device VID.	Integer	read-only
pCieDeviceDID	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.9.x	PCIe device DID.	Integer	read-only
pCieDeviceManufacturer	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.10.x	PCIe device manufacturer.	Display String	read-only
pCieDeviceDescription	1.3.6.1.4.1.2011.2.2 35.1.1.24.50.1.11.x	PCIe device description.	Display String	read-only

5.22.2 Constraints on the Create Operation

The create operation is not supported.

5.22.3 Constraints on the Modify Operation

The modify operation is not supported.

5.22.4 Constraints on the Delete Operation

The delete operation is not supported.

5.22.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.22.6 Constraints on the Set Operation

The set operation is not supported.

5.23 mezzProperty Specifications

5.23.1 Function Description

The **mezzProperty** module allows you to view mezz card information of a server. **mezzDescriptionTable** is a table node, and its subnode **mezzCardMark** is a leaf node.

The OID of the **mezzDeviceDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).mezzProperty(25).mezzDescriptionTable(50)

The following table describes the leaf nodes under the **mezzDeviceDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
mezzCardIndex	1.3.6.1.4.1.2011.2.23 5.1.1.25.50.1.1.x	Mezz card index.	Integer	not-accessible
mezzCardLocation	1.3.6.1.4.1.2011.2.23 5.1.1.25.50.1.2.x	Mezz card physical location.	Display String	read-only
mezzCardFunction	1.3.6.1.4.1.2011.2.23 5.1.1.25.50.1.3.x	Mezz card logic function.	Display String	read-only
mezzCardDeviceName	1.3.6.1.4.1.2011.2.23 5.1.1.25.50.1.4.x	Mezz card device name.	Display String	read-only

5.23.2 Constraints on the Create Operation

The create operation is not supported.

5.23.3 Constraints on the Modify Operation

The modify operation is not supported.

5.23.4 Constraints on the Delete Operation

The delete operation is not supported.

5.23.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.23.6 Constraints on the Set Operation

The set operation is not supported.

5.24 temperatureProperty Specifications

5.24.1 Function Description

The **temperatureProperty** module allows you to view temperature information of some components on a server. The components include the air intake vent, CPUs.

temperatureDescriptionTable is a table node, and its subnodes **temperatureIndex**, **temperatureObject**, **temperatureReading**, **temperatureUpperNonRecoverable**, **temperatureUpperCritical**, **temperatureUpperMinor**, **temperatureLowerNonRecoverable**, **temperatureLowerCritical**, and **temperatureLowerMinor** are leaf nodes.

The following table describes the mapping between indexes and temperature monitoring points.

Index	Temperature Monitoring Point
1	Air intake vent
2	CPU 1
3	CPU 2
4	CPU 3
5	CPU 4

The OID of the **temperatureDescriptionTable** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiMana(1).temperatureProperty(26).temperatureDescriptionTable(50)

The following table describes the leaf nodes under the **temperatureDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
temperatureIndex	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.1.x	Temperature index.	Integer	not-accessible

Node Name	Node OID Instance	Description	Type	Access
temperatureObject	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.2.x	Temperature object.	DisplayString	read-only
temperatureReading	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.3.x	Temperature reading. The unit is 1/10 Celsius degree. If a server is powered off, the CPU temperature is not readable and the value is 0 .	Integer	read-only
temperatureUpperNonRecoverable	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.4.x	Upper threshold for nonrecoverable temperature alarms. The unit is 1/10 Celsius degree. The value 65535 indicates N/A.	Integer	read-only
temperatureUpperCritical	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.5.x	Upper threshold for critical temperature alarms. The unit is 1/10 Celsius degree. The value 65535 indicates N/A.	Integer	read-only
temperatureUpperMinor	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.6.x	Upper threshold for minor temperature alarms. The unit is 1/10 Celsius degree. The value 65535 indicates N/A.	Integer	read-only
temperatureLowerNonRecoverable	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.7.x	Lower threshold for nonrecoverable temperature alarms. The unit is 1/10 Celsius degree. The value 65535 indicates N/A.	Integer	read-only
temperatureLowerCritical	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.8.x	Lower threshold for critical temperature alarms.	Integer	read-only

Node Name	Node OID Instance	Description	Type	Access
		The unit is 1/10 Celsius degree. The value 65535 indicates N/A.		
temperatureLowerMinor	1.3.6.1.4.1.2011.2.23 5.1.1.26.50.1.9.x	Lower threshold for minor temperature alarms. The unit is 1/10 Celsius degree. The value 65535 indicates N/A.	Integer	read-only

5.24.2 Constraints on the Create Operation

The create operation is not supported.

5.24.3 Constraints on the Modify Operation

The modify operation is not supported.

5.24.4 Constraints on the Delete Operation

The delete operation is not supported.

5.24.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.24.6 Constraints on the Set Operation

The set operation is not supported.

5.25 networkTimeProtocol Specifications

5.25.1 Function Description

The Network Time Protocol (NTP) information includes the following:

- Whether the board supports NTP time synchronization
- NTP status (enabled or disabled)
- Preferred NTP server IP address
- Alternate NTP server IP address
- NTP server source (manual or automatic)
- Bind IP versions

- Server authentication status (enabled or disabled)
- Group key imported
- Group key status

The OID of networkTimeProtocol table node is:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1). networkTimeProtocol (27)

networkTimeProtocol has the following leaf nodes:

Node Name	Node OID Instance	Description	Type	Access
ntpSupport	1.3.6.1.4.1.2011.2.235.1.1.27.1.0		INTEGER	read-only
ntpEnabled	1.3.6.1.4.1.2011.2.235.1.1.27.2.0	The state of NTP. Default value is disable(1)	INTEGER	read-write
preferredNTPServer	1.3.6.1.4.1.2011.2.235.1.1.27.3.0	Preferred NTP server between 1 to 255 characters. Default value is null. Max length is 128 characters.	DisplayString	read-write
alternateNTPServer	1.3.6.1.4.1.2011.2.235.1.1.27.4.0	Alternate NTP server between 1 to 255 characters. Default value is null. Max length is 128 characters.	DisplayString	read-write
ntpServersource	1.3.6.1.4.1.2011.2.235.1.1.27.5.0	The source of NTP servers. The value is manual(1) or auto(2).	INTEGER	read-write
bindNTPIPProtocol	1.3.6.1.4.1.2011.2.235.1.1.27.6.0	The IP Protocol version of NTP server address. The value is ipv4(1) or ipv6(2).	INTEGER	read-write
ntpAuthEnabled	1.3.6.1.4.1.2011.2.235.1.1.27.7.0	The state of authenticating NTP server. The value is disable(1) or enable(2).	INTEGER	read-write
ntpImportGroupkey	1.3.6.1.4.1.2011.2.235.1.1.27.8.0	The path of group key. Importing group key from this path.	DisplayString	read-write

Node Name	Node OID Instance	Description	Type	Access
ntpGroupkeyState	1.3.6.1.4.1.2011.2.235.1.1.27.9.0	The state of group key. The value is notimported(1) or imported(2).	INTEGER	read-only

5.25.2 Constraints on the Create Operation

The create operation is not supported.

5.25.3 Constraints on the Modify Operation

The modify operation is not supported.

5.25.4 Constraints on the Delete Operation

The delete operation is not supported.

5.25.5 Constraints on the Query Operation

The operations of get, getnext, walk, and getbulk are supported.

5.25.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following:

- **ntpEnabled**: 1-disabled; 2-enabled
- **preferredNTPServer**: IPv4 or IPv6 address or domain name. It is a string of 1 to 128 characters.
- **alternateNTPServer**: IPv4 or IPv6 address or domain name. It is a string of 1 to 128 characters.
- **ntpServersource**: 1-manual; 2-automatic
- **bindNTPIPProtocol**: 1-IPv4; 2-IPv6
- **ntpAuthEnabled**: 1-disabled; 2-enabled
- **ntpImportGroupkey**: BMC local path. It is a string of 1 to 128 characters.

5.26 remoteManagement Specifications

5.26.1 Function Description

The **remoteManagement** table node allows you to view the remote server management power-on configuration.

The OID of the **remoteManagement** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).remoteManagement(28)

The following table describes the leaf nodes under the **remoteManagement** table node.

Node Name	Node OID Instance	Description	Type	Access
powerOnControl	1.3.6.1.4.1.2011.2.23 5.1.1.28.1.0	The powerOnControl format: IP,PORT,ENABLE(eg 192.168.1.1,6999,1), maxlength is 255 characters.	Display String	read-write

5.26.2 Constraints on the Create Operation

The create operation is not supported.

5.26.3 Constraints on the Modify Operation

The modify operation is not supported.

5.26.4 Constraints on the Delete Operation

The delete operation is not supported.

5.26.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.26.6 Constraints on the Set Operation

The set operation is not supported.

5.27 snmpMIBConfig Specifications


5.27.1 Function Description

The **snmpMIBConfig** module allows you to view or configure SNMP information. Its subnode **snmpV3Algorithm** indicates authentication and encryption algorithms.

The OID of the **snmpMIBConfig** module is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).snmpMIBConfig(29)

The following table describes the leaf nodes under the **snmpMIBConfig** module.

Node Name	Node OID Instance	Description	Type	Access
snmpV3Algorithm	1.3.6.1.4.1.2011.2.235.1.1.29.1.0	<p>Authentication and encryption algorithms for SNMPv3.</p> <p>The value is in the format of <i>Authentication algorithm</i> and <i>Encryption algorithm</i>.</p> <p>Options:</p> <ul style="list-style-type: none"> • MD5andDES(1) • MD5andAES(2) • SHA1andDES(3) • SHA1andAES(4) <p> NOTE The SNMP server automatically restarts after the value is changed.</p>	Integer	read-write

5.27.2 Constraints on the Create Operation

The create operation is not supported.

5.27.3 Constraints on the Modify Operation

The modify operation is not supported.

5.27.4 Constraints on the Delete Operation

The delete operation is not supported.

5.27.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.27.6 Constraints on the Set Operation

The set operation is supported.

5.28 firmwareUpgrade Specifications

5.28.1 Function Description


The **firmwareUpgrade** module provides the firmware upgrade function. Its subnode **firmwareUpgradeStart** starts the upgrade, the subnode **firmwareUpgradeState** queries the

upgrade status and progress, and the subnode **firmwareUpgradeDetailedResults** queries the detailed results of the upgrade.

The OID of the **firmwareUpgrade** module is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).firmwareUpgrade(30)

The following table describes the leaf nodes under the **firmwareUpgrade** module.

Node Name	Node OID Instance	Description	Type	Access
firmwareUpgradeStart	1.3.6.1.4.1.201.1.2.235.1.1.30.1.0	<p>Starts a firmware upgrade.</p> <p>When you perform the set operation for this node, the value can contain a maximum of 256 characters, and is in the format of <i><firmware URI>,[effect mode]</i>.</p> <p>The <i><firmware URI></i> format is: <i>/Path/File</i>.</p> <p>The [effect mode] is an optional parameter. It only refers to upgrading iBMC firmware. The definition is as following and default is 2.</p> <ul style="list-style-type: none">• 1: manually reboot later• 2: auto reboot after upgrade <p>In addition, This parameter is ignored in iBMC which is 2.36 and above.</p> <p>For example, <i>/tmp/image.hpm,1</i>.</p> <p> NOTE</p> <ul style="list-style-type: none">• Do not power off the server or restart iBMC during the firmware upgrade.• If a firmware upgrade fails, check whether the iBMC memory capacity is sufficient and the upgrade file is correct.• During a BIOS upgrade, the system needs to make preparations for two minutes.• Do not shut down or restart the OS during a BIOS upgrade.	DisplayString	read-write
firmwareUpgradeState	1.3.6.1.4.1.201.1.2.235.1.1.30.2.0	<p>Firmware upgrade status and progress.</p> <p>Options:</p> <ul style="list-style-type: none">• -1: indicates that the upgrade has not started or has completed.• -2: indicates that the upgrade file is being uploaded.• -3: indicates that the system is performing a pre-upgrade check.• -4: indicates that the URI is invalid or the file does not exist.• -5: indicates that the upgrade file cannot be uploaded.• -6: indicates that the upgrade file is too	Integer	read-write

Node Name	Node OID Instance	Description	Type	Access
		large or the memory capacity is insufficient. <ul style="list-style-type: none">• -7: indicates that the upgrade package is invalid.• -8: indicates that the firmware in the current state does not support the upgrade.• -9: indicates that the upgrade has failed.• [0,100]: indicates the upgrade progress, in percentage.		
firmwareUpgradeDetailedResults	1.3.6.1.4.1.2011.2.235.1.1.30.3.0	Detailed results about firmware upgrade.	DisplayString	read-only

5.28.2 Constraints on the Create Operation

The create operation is not supported.

5.28.3 Constraints on the Modify Operation

The modify operation is not supported.

5.28.4 Constraints on the Delete Operation

The delete operation is not supported.

5.28.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.28.6 Constraints on the Set Operation

The set operation is supported.

5.29 certificate Specifications

5.29.1 Function Description

The **certificate** module allows you to manage certificates. This module has four submodules:

- **currentCertInfo**: provides information about the current certificate.
- **csrRequestInfo**: provides operations related to requesting a certificate.
- **customCertInsert**: provides operations related to importing a custom certificate.
- **caCertInfoTable**: provides information about CA certificates in a certificate chain.

The OID of the **currentCertInfo** module is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).certificate (31).currentCertInfo(1)

The following table describes the leaf nodes under the **currentCertInfo** module.

Node Name	Node OID Instance	Description	Type	Access
ownerCountry	1.3.6.1.4.1.2011.2.235.1.1.31.1.1.0	Owner country of the current certificate. The value contains 2 characters.	DisplayString	read-only
ownerState	1.3.6.1.4.1.2011.2.235.1.1.31.1.2.0	Owner state of the current certificate. The value contains 0 to 64 characters.	DisplayString	read-only
ownerLocation	1.3.6.1.4.1.2011.2.235.1.1.31.1.3.0	Owner location of the current certificate. The value contains 0 to 64 characters.	DisplayString	read-only
ownerOrganization	1.3.6.1.4.1.2011.2.235.1.1.31.1.4.0	Owner organization of the current certificate. The value contains 0 to 64 characters.	DisplayString	read-only
ownerOrganization Unit	1.3.6.1.4.1.2011.2.235.1.1.31.1.5.0	Owner organization unit of the current certificate. The value contains 0 to 64 characters.	DisplayString	read-only
ownerCommonName	1.3.6.1.4.1.2011.2.235.1.1.31.1.6.0	Owner common name of the current certificate. The value contains 1 to 64 characters.	DisplayString	read-only
issuerCountry	1.3.6.1.4.1.2011.2.235.1.1.31.1.7.0	Issuer country of the current certificate. The value can contain a maximum of two characters.	DisplayString	read-only
issuerState	1.3.6.1.4.1.2011.2.235.1.1.31.1.8.0	Issuer state of the current certificate. The value contains 0 to 64 characters.	DisplayString	read-only
issuerLocation	1.3.6.1.4.1.2011.2.235.1.1.31.1.9.0	Issuer location of the current certificate. The value contains 0 to 64 characters.	DisplayString	read-only
issuerOrganization	1.3.6.1.4.1.2011.2.235.1.1.31.1.10.0	Issuer organization of the current certificate. The value contains 0 to 64	DisplayString	read-only

Node Name	Node OID Instance	Description	Type	Access
		characters.		
issuerOrganizationUnit	1.3.6.1.4.1.2011.2.235.1.1.31.1.11.0	Issuer organization unit of the current certificate. The value contains 0 to 64 characters.	DisplayString	read-only
issuerCommonName	1.3.6.1.4.1.2011.2.235.1.1.31.1.12.0	Issuer common name of the current certificate. The value contains 1 to 64 characters.	DisplayString	read-only
certStartTime	1.3.6.1.4.1.2011.2.235.1.1.31.1.13.0	Start time of the current certificate.	DisplayString	read-only
certExpiration	1.3.6.1.4.1.2011.2.235.1.1.31.1.14.0	Time when the current certificate will expire.	DisplayString	read-only

The OID of the **csrRequestInfo** module is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).certificate (31).csrRequestInfo(2)

The following table describes the leaf nodes under the **csrRequestInfo** module.

Node Name	Node OID Instance	Description	Type	Access
reqCountry	1.3.6.1.4.1.2011.2.235.1.1.31.2.1.0	Owner country of the requested certificate. The value can contain a maximum of two characters, which can be any letters. The value is No Access if you do not have permission to perform this operation.	DisplayString	read-write
reqState	1.3.6.1.4.1.2011.2.235.1.1.31.2.2.0	Owner state of the requested certificate. The value length ranges from 0 to 64 characters, including digits, letters, or symbol spaces. The value is No Access if you do not have permission to perform this operation.	DisplayString	read-write
reqLocation	1.3.6.1.4.1.2011.2.235.1.1.31.2.3.0	Owner location of the requested certificate. The value length ranges from 0 to 64 characters, including digits, letters, or symbol spaces. The value is No Access if you do not have permission to	DisplayString	read-write

Node Name	Node OID Instance	Description	Type	Access
		perform this operation.		
reqOrganization	1.3.6.1.4.1.2011.2.235.1.1.31.2.4.0	Owner organization of the requested certificate. The value contains 0 to 64 characters, which can be digits, letters, spaces, and special characters such as hyphens (-) and underscores (_). The value is No Access if you do not have permission to perform this operation.	DisplayString	read-write
reqOrganizationUnit	1.3.6.1.4.1.2011.2.235.1.1.31.2.5.0	Owner organization unit of the requested certificate. The value contains 0 to 64 characters, which can be digits, letters, spaces, and special characters such as hyphens (-) and underscores (_). The value is No Access if you do not have permission to perform this operation.	DisplayString	read-write
reqCommonName	1.3.6.1.4.1.2011.2.235.1.1.31.2.6.0	Owner common name of the requested certificate. The value contains 1 to 64 characters, which can be digits, letters, spaces, and special characters such as hyphens (-) and underscores (_). The value is No Access if you do not have permission to perform this operation.	DisplayString	read-write
csrGenerate	1.3.6.1.4.1.2011.2.235.1.1.31.2.7.0	Starts to generate a CSR file for a requested certificate. A CSR file correlates with the server certificate applied from the CA organization. Do not generate a new CSR file before importing the server certificate. Otherwise, the original CSR file is overwritten by the new CSR file and cannot be recovered. You have to use the new CSR file to apply for a new server certificate from the CA organization. Option: csrGenerate(1)	Integer	write-only

Node Name	Node OID Instance	Description	Type	Access
csrExport	1.3.6.1.4.1.2011.2.235.1.1.31.2.8.0	Acquires the CSR for the requested certificate. The value is empty if the requested CSR does not exist. The value is No Access if you do not have permission to perform this operation.	DisplayString	read-only
certificateImport	1.3.6.1.4.1.2011.2.235.1.1.31.2.9.0	Imports a server certificate.	DisplayString	write-only
csrStatus	1.3.6.1.4.1.2011.2.235.1.1.31.2.10.0	CSR file generation status. <ul style="list-style-type: none">• 1: CSR file generation has not started or has successfully completed.• 2: A CSR file is being generated.• 3: A CSR file fails to be generated. The value is -1 you do not have permission to perform this operation.	Integer	read-only

The OID of the **customCertInsert** module is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).certificate (31).customCertInsert(3)

The following table describes the leaf nodes under the **customCertInsert** module.

Node Name	Node OID Instance	Description	Type	Access
customCertificateContent	1.3.6.1.4.1.2011.2.235.1.1.31.3.1.0	Sets custom certificate content.	<i>DisplayString</i>	<i>write-only</i>
customCertificatePasswd	1.3.6.1.4.1.2011.2.235.1.1.31.3.2.0	Sets a password for a custom certificate, with max len 127.	<i>DisplayString</i>	<i>write-only</i>
customCertificateImport	1.3.6.1.4.1.2011.2.235.1.1.31.3.3.0	Imports a custom certificate. Option: customCertificateImport(1)	<i>Integer</i>	<i>write-only</i>

caCertInfoEntry is a part of **caCertInfoTable** module. The OID of **caCertInfoEntry** is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).certificate(31).caCertInfoTable(4).caCertInfoEntry(1)

Node Name	Node OID Instance	Description	Type	Access
caCertIndex	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.1	Information about certificate index.	INTEGER	read-only
caCertType	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.2	Information about certificate type	DisplayString	read-only
caCertOwnerCountry	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.3	Owner country of current certificate, with length of 2	DisplayString	read-only
caCertOwnerState	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.4	Owner state of current certificate, with length of [0,64].	DisplayString	read-only
caCertOwnerLocation	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.5	Owner location of current certificate, with length of [0,64].	DisplayString	read-only
caCertOwnerOrganization	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.6	Owner organization of current certificate, with length of [0,64].	DisplayString	read-only
caCertOwnerOrganizationUnit	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.7	Owner organization unit of current certificate, with length of [0,64].	DisplayString	read-only
caCertOwnerCommonName	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.8	Owner common name of current certificate, with length of [1,64].	DisplayString	read-only
caCertIssuerCountry	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.9	Issuer country of current certificate, with length of 2.	DisplayString	read-only
caCertIssuerState	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.10	Issuer state of current certificate, with length of [0,64].	DisplayString	read-only
caCertIssuerLocation	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.11	Issuer location of current certificate, with length of [0,64].	DisplayString	read-only
caCertIssuerOrganization	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.12	Issuer organization of current certificate, with length of [0,64].	DisplayString	read-only
caCertIssuerOrganizationUnit	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.13	Issuer organization unit of current certificate, with length of [0,64].	DisplayString	read-only

Node Name	Node OID Instance	Description	Type	Access
caCertIssuerCommonName	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.14	Issuer common name of current certificate, with length of [1,64].	DisplayString	read-only
caCertStartTime	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.15	Start time of current certificate.	DisplayString	read-only
caCertExpiration	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.16	Expiration of current certificate.	DisplayString	read-only
caCertSN	1.3.6.1.4.1.2 011.2.235.1. 1.31.4.1.17	Serial Number of current certificate.	DisplayString	read-only

5.29.2 Constraints on the Create Operation

The create operation is not supported.

5.29.3 Constraints on the Modify Operation

The modify operation is not supported.

5.29.4 Constraints on the Delete Operation

The delete operation is not supported.

5.29.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.29.6 Constraints on the Set Operation

The set operation is supported.

5.30 SDCardProperty Specifications

5.30.1 Function Description

SD card information includes single ID card presence, health status, properties, manufacturer, SN, controller manufacturer, and controller version.

The OID of **sdCardProperty** is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).SDCardProperty(32)

The following table describes the leaf nodes under the **sdCardProperty** node.

Node Name	Node OID Instance	Description	Type	Access
sdCardControllerManufacturer	1.3.6.1.4.1.2011.2.235.1.1.32.1.0	Information about sdcard controller manufacturer	DisplayString	read-only
sdCardControllerVersion	1.3.6.1.4.1.2011.2.235.1.1.32.2.0	Information about sdcard controller version	DisplayString	read-only
sdCardEntireStatus	1.3.6.1.4.1.2011.2.235.1.1.32.3.0	information about all sdcard health status. ok(1) minor(2) major(3) critical(4) absence(5) unknown(6)	INTEGER	read-only

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).SDCardProperty(32).SDCardDescriptionTable(50).SDCardDescriptionEntry(1)

Node Name	Node OID Instance	Description	Type	Access
sdCardIndex	1.3.6.1.4.1.2011.2.235.1.1.32.50.1.1.x	Information about sd card index	INTEGER	not-accessible
sdCardPresence	1.3.6.1.4.1.2011.2.235.1.1.32.50.1.2.x	Information about sd card presence. absence(1), presence(2) unknown(3)	INTEGER	read-only

Node Name	Node OID Instance	Description	Type	Access
sdCardStatus	1.3.6.1.4.1.2011.2.235.1 .1.32.50.1.3.x	Information about SD card health. ok(1), minor(2), major(3), critical(4), absence(5), unknown(6)	INTEGER	read-only
sdCardCapacity	1.3.6.1.4.1.2011.2.235.1 .1.32.50.1.4.x	sd card capacity(MB).	INTEGER	read-only
sdCardManufacturer	1.3.6.1.4.1.2011.2.235.1 .1.32.50.1.5.x	Information about SD card manufacturer	DisplayString	read-only
SDCardSN	1.3.6.1.4.1.2011.2.235.1 .1.32.50.1.6.x	Information about SD card SN	DisplayString	read-only

5.30.2 Constraints on the Create Operation

The create operation is not supported.

5.30.3 Constraints on the Modify Operation

The modify operation is not supported.

5.30.4 Constraints on the Delete Operation

The delete operation is not supported.

5.30.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.30.6 Constraints on the Set Operation

The set operation is not supported.

5.31 securityModuleProperty Specifications

5.31.1 Function Description

Security module information includes security module presence, specification type, specification version, manufacturer name, and manufacturer firmware version.

The OID of **securityModuleProperty** is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).securityModuleProperty(33)

The following table describes the leaf nodes under the **securityModuleProperty** node.

Node Name	Node OID Instance	Description	Type	Access
presence	1.3.6.1.4.1.2011.2.235.1.1.33.1.0	Presence of security module absence(1) presence(2) unknown(3)	INTEGER	read-only
specificationType	1.3.6.1.4.1.2011.2.235.1.1.33.2.0	Specification type of security module	DisplayString	read-only
specificationVersion	1.3.6.1.4.1.2011.2.235.1.1.33.3.0	Specification version of security module	DisplayString	read-only
manufacturerName	1.3.6.1.4.1.2011.2.235.1.1.33.4.0	Manufacturer name of security module	DisplayString	read-only
manufacturerVersion	1.3.6.1.4.1.2011.2.235.1.1.33.5.0	Manufacturer firmware version of security module	DisplayString	read-only

5.31.2 Constraints on the Create Operation

The create operation is not supported.

5.31.3 Constraints on the Modify Operation

The modify operation is not supported.

5.31.4 Constraints on the Delete Operation

The delete operation is not supported.

5.31.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.31.6 Constraints on the Set Operation

The set operation is not supported.

5.32 syslog Specifications

5.32.1 Function Description

The simple nodes of the **syslog** module allow you to view and set the syslog function status (enabled or disabled), syslog identifier, severity of syslogs to be sent, protocol type of syslog

to be sent, type of certificate authentication. The table node of the **syslog** module describes syslog information, and the leaf nodes allow you to view and set the syslog receiving status (enabled or disabled), address and port number for receiving syslogs, syslog source, and syslog test.

The OID of the **syslog** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).syslog(34)

The following table describes the leaf nodes in the **syslog** scalar table.

Node Name	Node OID Instance	Description	Type	Access
syslogEnable	1.3.6.1.4.1.2011.2.235.1.1.34.1.0	Whether to enable the syslog function. Options: <ul style="list-style-type: none">1: disable(1)2: enable(2)	Integer	read-write
syslogIdentity	1.3.6.1.4.1.2011.2.235.1.1.34.2.0	Server identity used for sending syslogs. <ul style="list-style-type: none">boardSN(1)productAssetTag(2)hostName(3)	Integer	read-write
syslogSeverity	1.3.6.1.4.1.2011.2.235.1.1.34.3.0	Level of syslogs to be sent. Options: <ul style="list-style-type: none">1: ok(1)2: minor(2)3: major(3)4: critical(4)5: none(5) The default value is ok(1) .	Integer	read-write
syslogProtocol Type	1.3.6.1.4.1.2011.2.235.1.1.34.4.0	The syslog protocol type. Default value is TCP. 1: udp(1) 2: tcp(2) 3: tls(3)	INTEGER	read-write
syslogProtocol Type	1.3.6.1.4.1.2011.2.235.1.1.34.4.0	The syslog protocol type. Default value is TCP. 1: udp(1) 2: tcp(2) 3: tls(3)	INTEGER	read-write

Node Name	Node OID Instance	Description	Type	Access
syslogAuthType	1.3.6.1.4.1.2011.2.235.1.1.34.5.0	The syslog auth type. Default value is one way authentication. 1: one-way(1) 2: mutual(2)	INTEGER	read-write
syslogImportRootCertificate	1.3.6.1.4.1.2011.2.235.1.1.34.6.0	Import root certificate of the syslog server, write only. eg:/tmp/cacert.pem	Display String	read-write

The **syslogInfoDescriptionEntry** node describes the leaf nodes under the **syslogInfoDescriptionTable** table node. The OID of the **syslogInfoDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).syslog(34).syslogInfoDescriptionTable(50).syslogInfoDescriptionEntry(1)

The following table describes the leaf nodes under the **syslogInfoDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
syslogReceiverIndex	1.3.6.1.4.1.2011.2.235.1.1.34.50.1.1.x	Syslog receiver index.	Integer	not-accessible
syslogReceiverEnable	1.3.6.1.4.1.2011.2.235.1.1.34.50.1.2.x	Options: <ul style="list-style-type: none">1: disable(1)2: enable(2)	Integer	read-write
syslogReceiverAddress	1.3.6.1.4.1.2011.2.235.1.1.34.50.1.3.x	Syslog Receiver IPv4 or IPv6 address. The default value is empty.	Display String	read-write
syslogReceiverPort	1.3.6.1.4.1.2011.2.235.1.1.34.50.1.4.x	Syslog receiver port.	Integer	read-write
syslogSendSource	1.3.6.1.4.1.2011.2.235.1.1.34.50.1.5.x	Source of syslogs to be sent. You can set or get any combination of the three sources (OperationLogs, SecurityLogs, EventLogs), which are separated by commas (.). None/all is also supported, but never	Display String	read-write

Node Name	Node OID Instance	Description	Type	Access
		use it with the three sources together.		
syslogReceiverTest	1.3.6.1.4.1.2011.2.235.1.1.34.50.1.6.x	Test whether syslog information can be received. When you perform the set operation, the value can only be 1.	Integer	write-only

5.32.2 Constraints on the Create Operation

The create operation is not supported.

5.32.3 Constraints on the Modify Operation

The modify operation is not supported.

5.32.4 Constraints on the Delete Operation

The delete operation is not supported.

5.32.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.32.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- **syslogEnable:** The value is **1** (disabled) or **2** (enabled).
- **syslogIdentity:** The value can be **1** (boardSN), **2** (productAssetTag), or **3** (hostName).
- **syslogSeverity:** The value can be **1** (all events, including normal events), **2** (minor or more severe events), **3** (major or more severe events), or **4** (critical events), or **5**(none).
- **syslogProtocolType:**The value can be **1**(udp),**2**(tcp),**3**(tls)
- **syslogAuthType:** The value is **1**(one-way) or **2**(mutual).
- **syslogReceiverEnable:** The value is **1** (disabled) or **2** (enabled).
- **syslogReceiverAddress:** The value is an IPv4 or IPv6 address or empty.
- **syslogReceiverPort:** The value is an syslog server port number.
- **syslogSendSource:** The value can be any combination of the three sources (**OperationLogs**, **SecurityLogs**, **EventLogs** which are separated by commas (,). The value can also be set to none/all.
- **syslogReceiverTest:** The value has a fixed value of **1**.

5.33 fileTransfer Specifications

5.33.1 Function Description

The simple nodes of the **fileTransfer** module allow you to set a url to transfer file to BMC or transfer file from BMC. The table node of the **fileTransfer** module describes set url of transfer file and get transfer file status.

The OID of the **fileTransfer** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).syslog(35)

The following table describes the leaf nodes in the **fileTransfer** scalar table.

Node Name	Node OID Instance	Description	Type	Access
fileTransferUrl	1.3.6.1.4.1.2011.2.235.1.1.35.1.0	<p>The file transfer URL format is: <download/upload><ID><protocol://[username:password@[IP[:port]/directory/filename></p> <p>The maximum length of the URL is 1024 bytes.</p> <p>The parameters in the URL are described as follows:</p> <p>The download means download file to BMC.</p> <p>The upload means upload file to the destination server</p> <p>The ID is the file ID, ranging from 0 to 255.</p> <p>The supported protocols include https, sftp, cifs, scp, and nfs.</p> <p>The username and password are those of the destination server.</p> <p>The IP can be set to an IPv4/IPv6 address or a domain name.</p> <p>The directory and filename are those on the destination server.</p> <p>Example URLs are as follows:</p> <p>download;0;https://root:tes t1234@192.168.2.13:443/</p>	Display String	read-write

Node Name	Node OID Instance	Description	Type	Access
		data/display0.ini upload;1;sftp://root:test1234@[2001::178]/home/options0.ini The URL can contain only letters, digits, and special characters. The directory or file name cannot contain @.		
specificationType	1.3.6.1.4.1.2011.2.235.1.1.35.2.0	Information about file transfer state. the value defined as: -1 : unknown error, -101: download unavailable, -102: file name too long, -103: file length out of MAXlength or out of memery, -104: set file update flag error, -105: libcurl run error, -106: upload unavailable, -107: upload file unavailable, -108: protocol not supported, -109: url format error, [0,100]:represents transfer progress in percentage while file being transfered.	INTEGER	read-only

5.33.2 Constraints on the Create Operation

The create operation is not supported.

5.33.3 Constraints on the Modify Operation

The modify operation is not supported.

5.33.4 Constraints on the Delete Operation

The delete operation is not supported.

5.33.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.33.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation of **fileTransferUrl**, pay attention to the url must contains download/upload,file ID and url of transfer file.The file ID is discribed as the follow table.

File ID	File Description	Download	Upload	File Name	User Privilege
0	BIOS display0.ini file	Y	Y	Download path:/tmp/ Upload file:/data/opt/pme/conf/bios/display0.ini	KVM
1	BIOS option0.ini file	Y	Y	Download path:/tmp/ Upload file:/data/opt/pme/conf/bios/options0.ini	KVM
2	BIOS changed0.ini file	Y	Y	Download path:/tmp/ Upload file:/data/opt/pme/conf/bios/changed0.ini	KVM
3	BMC debug info file	N	Y	Download path:NA Upload file:/tmp/dump_info.tar.gz	Diagnosis
4	Firmware file	Y	N	Download path:/tmp/ updatefirmware.hpm Upload file:NA	Basic Settings
5	BIOS netconfig.ini file	Y	Y	Download path:/tmp/ Upload file: /data/opt/pme/conf/bios/netconfig.ini	KVM
6	BMC sol data file	N	Y	Download path:NA Upload file:/tmp/systemcom.tar	Diagnosis
7	BMC blackbox file	N	Y	Download path:NA Upload file:/tmp/blackbox.tar	Diagnosis
8	BIOS ClpConfig.ini file	N	Y	Download path:NA Upload file: /opt/pme/conf/bios/ClpConfig0.ini	KVM

File ID	File Description	Download	Upload	File Name	User Privilege
9	BIOS ClpResponse.ini file	Y	N	Download path:/tmp/ Upload file:NA	Basic Settings
11	BMC powerview.txt file	N	Y	Download path:NA Upload file: /opt/pme/pram/powerview.txt	Get Info
13	BMC ssh public key	Y	N	Download path:/tmp/ Upload file:NA	Get Info
14	Web SSL certificate	Y	N	Download path:/tmp/ Upload file:NA	Security Settings
15	BMC configuration file	Y	Y	Download path:/tmp/ Upload file:/dev/shm/config.xml	User Settings

5.34 raidControllerProperty Specifications

5.34.1 Function Description

The simple nodes of the RAID controller information, which include controller name, controller type, controller health state, controller firmware version, controller interface type, controller DDR ECC count, BBU type, etc.

The OID of raidControllerProperty table node is:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).raidControllerProperty(36)

raidControllerDescriptionEntry describes the compositions of raidControllerDescriptionTable. The OID of it is:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).raidControllerProperty(36).raidControllerDescriptionTable(50).raidControllerDescriptionEntry(1)

Note:x is index of RAID controller

Node Name	Node OID Instance	Description	Type	Access
raidControllerIndex	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.1.x	Information about RAID controller index.	INTEGER	not-accessible
raidControllerName	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.2.x	Information about RAID controller name.	DisplayString	read-only

Node Name	Node OID Instance	Description	Type	Access
raidControllerType	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.3.x	Information about RAID controller type.	DisplayString	read-only
raidControllerComponentName	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.4.x	Information about RAID controller component name.	DisplayString	read-only
raidControllerSupportOOBManagement	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.5.x	Information about RAID controller if support OOB management. 1: No 2: Yes	INTEGER	read-only
raidControllerMode	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.6.x	Information about RAID controller mode. 1: None-RAID 2: RAID 255: unknown	INTEGER	read-only
raidControllerHealthStatus	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.7.x	Information about RAID controller health status. bit0: 1- memory correctable error bit1: 1- memory uncorrectable error bit2: 1- memory ECC error bit3: 1- NVRAM uncorrectable error other: reserved	INTEGER	read-only
raidControllerFirmwareVersion	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.8.x	Information about RAID controller firmware version.	DisplayString	read-only
raidControllerNVDataVersion	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.9.x	Information about RAID controller NVData version.	DisplayString	read-only
raidControllerMemorySizeInMB	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.10.x	Information about RAID controller memory size (MB).	INTEGER	read-only
raidControllerDeviceInterface	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.11.x	Information about RAID controller device interface type.	INTEGER	read-only
raidControllerSASAddress	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.12.x	Information about RAID controller SAS address.	DisplayString	read-only
raidControllerCachePinned	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.13.x	Information about RAID controller if cache is pinned. 1: No 2: Yes 255: unknown	INTEGER	read-only
raidControllerMaintainPDFailHistory	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.14.x	Information about RAID controller if maintain PD fail history. 1: No	INTEGER	read-only

Node Name	Node OID Instance	Description	Type	Access
		2: Yes 255: unknown		
raidControllerDDREccCount	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.15.x	Information about RAID controller DDR ECC count.	INTEGER	read-only
raidControllerBBUPresence	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.16.x	Information about RAID controller's BBU presence. 1: Absent 2: Present 255: unknown	INTEGER	read-only
raidControllerBBUType	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.17.x	Information about RAID controller' BBU type.	DisplayString	read-only
raidControllerBBUHealthStatus	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.18.x	Information about RAID controller's BBU health status. bit0: 1 - pack is missing bit1: 1 - voltage is low bit2: 1 - temperature is high bit3: 1 - need replace pack other: reserved	INTEGER	read-only
raidControllerMinStripSupportInBytes	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.19.x	Information about the minimum strip size that RAID controller support.	INTEGER	read-only
raidControllerMaxStripSupportInBytes	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.20.x	Information about the maximum strip size that RAID controller support.	INTEGER	read-only
raidControllerCopybackEnable	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.21.x	Information about the copyback state of RAID controller. 1: unknown(readonly) 2: disabled 3: enabled	INTEGER	read-write
raidControllerSMARTerCopybackEnable	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.22.x	Information about the copyback state on SMART error of RAID controller. 1: unknown(readonly) 2: disabled 3: enabled	INTEGER	read-write
raidControllerJBODEnable	1.3.6.1.4.1.2011.2.2 35.1.1.36.50.1.23.x	Information about the JBOD state of RAID controller. 1: unknown(readonly) 2: disabled 3: enabled	INTEGER	read-write

Node Name	Node OID Instance	Description	Type	Access
raidControllerRestoreSettings	1.3.6.1.4.1.2011.2.2.35.1.1.36.50.1.24.x	Restore RAID controller settings(write only). 1:restore settings others: invalid	INTEGER	read-write
raidControllerCreateLD	1.3.6.1.4.1.2011.2.2.35.1.1.36.50.1.25.x	Create new logical drive on this RAID controller. The arguments are separated by semicolons; rl=<RAID level> The RAID level of logical drive. It is mandatory. When 'cachecade=1' is specified, RAID level 0/1 is valid. r0: RAID0 r1: RAID1 r5: RAID5 r6: RAID6 r10: RAID10 r50: RAID50 r60: RAID60 pd=<PD IDs> The physical drives IDs which participate this logical drive. It is mandatory. name=<Logical Drive name> The name of logical drive. The maximum is 15 printable ASCII characters except ';'. It is optional. size=<Logical Drive size> The size of logical drive and unit can be 'm'(megabytes), 'g'(gigabytes), or 't'(terabytes). It is optional and not necessary when 'cachecade=1' is specified. ss=<Logical Drive strip size> The strip size of logical drive. The valid values are 64k,128k,256k,512k,1M. It is optional and not necessary when 'cachecade=1' is specified. sc= The span count of logical drive. The default is 1 when RAID level is RAID0/1/5/6 and 2 when RAID level is RAID10/50/60. It is optional and not necessary when 'cachecade=1' is specified. rp=<Read Policy> The read policy of logical drive. It is optional and not necessary when 'cachecade=1' is specified.	DisplayString	read-write

Node Name	Node OID Instance	Description	Type	Access
		<p>ra: Read Ahead nra: No Read Ahead wp=<Write Policy> The write policy of logical drive. It is optional. wt: Write Through wbwithbbu: Write Back with BBU wb: Write Back iop=<IO Policy> The IO policy of logical drive. It is optional and not necessary when 'cachecade=1' is specified. cio: Cached IO dio: Direct IO ap=<Access Policy> The access policy of logical drive. It is optional and not necessary when 'cachecade=1' is specified. rw: Read Write ro: Read only blocked: Blocked dcp=<Disk Cache Policy> The disk cache policy of logical drive. It is optional and not necessary when 'cachecade=1' is specified. enabled: Enable disk cache disabled: Disable disk cache default: Unchanged(Disk's default) init=<Init Type> The initialization type of logical drive. It is optional and not necessary when 'cachecade=1' is specified. none: No init quick: Quick init full: Full init cachecade=1: Logical drive is used for secondary cache. It is optional. It must be supported by RAID controller first.</p>		
raidControllerAddLD	1.3.6.1.4.1.2011.2.2.35.1.1.36.50.1.26.x	<p>Add logical drive on array on this RAID controller. The arguments are separated by semicolons; array=<Array ID> The array on which the logical drive will be added. It is mandatory.</p>	DisplayString	read-write

Node Name	Node OID Instance	Description	Type	Access
		<p>name=<Logical Drive name> The name of logical drive and maximum is 15 printable ASCII characters except ‘.’. It is optional.</p> <p>size=<Logical Drive size> The size of logical drive and unit can be ‘m’(megabytes), ‘g’(gigabytes), or ‘t’(terabytes). It is optional.</p> <p>ss=<Logical Drive strip size>, The strip size of logical drive. The valid values are 64k,128k,256k,512k,1M. It is optional.</p> <p>rp=<Read Policy> The read policy of logical drive. It is optional.</p> <p>ra: Read Ahead</p> <p>nra: No Read Ahead</p> <p>wp=<Write Policy> The write policy of logical drive. It is optional.</p> <p>wt: Write Through</p> <p>wbwithbbu: Write Back with BBU</p> <p>wb: Write Back</p> <p>iop=<IO Policy> The IO policy of logical drive. It is optional.</p> <p>cio: Cached IO</p> <p>dio: Direct IO</p> <p>ap=<Access Policy> The access policy of logical drive. It is optional.</p> <p>rw: Read Write</p> <p>ro: Read only</p> <p>blocked: Blocked</p> <p>dcp=<Disk Cache Policy> The disk cache policy of logical drive. It is optional.</p> <p>enabled: Enable disk cache</p> <p>disabled: Disable disk cache</p> <p>default: Unchanged(Disk’s default)</p> <p>init=<Init Type> The initialization type of logical drive. It is optional.</p> <p>none: No init</p> <p>quick: Quick init</p> <p>full: Full init</p>		

5.34.2 Constraints on the Create Operation

The create operation is not supported.

5.34.3 Constraints on the Modify Operation

The modify operation is not supported.

5.34.4 Constraints on the Delete Operation

The delete operation is not supported.

5.34.5 Constraints on the Query Operation

The operations of get, walk, get next, and get bulk are supported.

5.34.6 Constraints on the Set Operation

The set operation is supported.

raidControllerCopybackEnable: The values that can be set are disabled(2), enabled(3).

raidControllerSMARTerCopybackEnable: The values that can be set are disabled(2), enabled(3). It can be set only when raidControllerCopybackEnable is enabled.

raidControllerJBODEnable: The values that can be set are disabled(2), enabled(3).

raidControllerRestoreSettings: The value that can be set is restore(1).

raidControllerCreateLD: Create logical drive on free physical drives. The argument is string and the format refers to OID description. The example is,

```
rl=1;pd=1,2;name=example;size=100g;ss=256k;sc=1;rp=ra;wp=wb;iop=cio;ap=rw;dcp=enabled;init=quick;
```

or

```
rl=50;pd=1,2,3,4,5,6,7,8,9;name=example; size=500g;  
ss=1M;sc=3;rp=ra;wp=wb;iop=cio;ap=rw;dcp=enabled;init=quick;
```

or

```
rl=0;pd=1,2;name=example;wp=wb;cachecade ;
```

NOTE

Character ‘,’ is not valid for name string because it is used as separator.

raidControllerAddLD: Add logical drive on exist disk array. The argument is string and the format refers to OID description. The example is,

```
array=1;name=example;size=100g;ss=512k;rp=ra;wp=wb;iop=cio;ap=rw;dcp=enabled;init=quick;
```

NOTE

Character ‘,’ is not valid for name string because it is used as separator.

5.35 logicalDriveProperty Specifications

5.35.1 Function Description

The simple nodes of the RAID controller information, which include RAID level, logical drive state, read policy, write policy, stripe size, logical drive size, consistency check state, etc.

The OID of logicalDriveProperty table node is:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).logicalDriveProperty(37)

logicalDriveDescriptionEntry describe the compositions of logicalDriveDescriptionTable. The OID of it is:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).logicalDriveProperty(37).logicalDriveDescriptionTable(50).logicalDriveDescriptionEntry(1)

Note:x is index of logical drive

Node Name	Node OID Instance	Description	Type	Access
logicalDrive RAIDControllerIndex	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.1.x	Information about RAID controller index to which this logical drive belongs.	INTEGER	not-accessible
logicalDrive Index	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.2.x	Information about logical drive index in current RAID controller.	INTEGER	not-accessible
logicalDrive RAIDLevel	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.3.x	Information about logical drive RAID level.	DisplayString	read-only
logicalDrive State	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.4.x	Information about logical drive state. 1: Offline 2: Partial degraded 3: Degraded 4: Optimal 255: unknown	INTEGER	read-only
logicalDrive DefaultReadPolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.5.x	Information about logical drive default read policy. 1: No read ahead 2: Read ahead 255: unknown	INTEGER	read-write

Node Name	Node OID Instance	Description	Type	Access
logicalDriveDefaultWritePolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.6.x	Information about logical drive default write policy. 1: Write through 2: Write back 3: Write caching ok if bad BBU 255: unknown	INTEGER	read-write
logicalDriveDefaultIOPolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.7.x	Information about logical drive default cache policy. 1: Cached IO 2: Direct IO 255: unknown	INTEGER	read-write
logicalDriveCurrentReadPolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.8.x	Information about logical drive current read policy. 1: No read ahead 2: Read ahead 255: unknown	INTEGER	read-only
logicalDriveCurrentWritePolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.9.x	Information about logical drive current write policy. 1: Write through 2: Write back 3: Write caching ok if bad BBU 255: unknown	INTEGER	read-only
logicalDriveCurrentIOPolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.10.x	Information about logical drive current cache policy. 1: Cached IO 2: Direct IO 255: unknown	INTEGER	read-only
logicalDriveSpanDepth	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.11.x	Information about logical drive span depth.	INTEGER	read-only
logicalDriveNumDrivesPerSpan	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.12.x	Information about logical drive number of drives per span.	INTEGER	read-only
logicalDrive	1.3.6.1.4.1.2011.2.	Information about	INTEGER	read-only

Node Name	Node OID Instance	Description	Type	Access
StripeSizeIn Bytes	235.1.1.37.50.1.13.x	logical drive stripe size in bytes.		
logicalDrive StripeSizeIn MB	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.14.x	Information about logical drive stripe size in mega-bytes.	INTEGER	read-only
logicalDrive SizeInMB	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.15.x	Information about logical drive size (MB).	INTEGER	read-only
logicalDrive DiskCachePolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.16.x	Information about logical drive disk cache state. 1: Disk's default 2: Enabled 3: Disabled 255: unknown	INTEGER	read-write
logicalDrive Consistency CheckStatus	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.17.x	Information about logical drive consistency check status. 1: Stopped 2: In-progress 255: unknown	INTEGER	read-only
logicalDrive Bootable	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.18.x	Information about logical drive if it is bootable. 1: No 2: Yes 255: unknown	INTEGER	read-write
logicalDrive Name	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.19.x	Information about logical drive name.	DisplayString	read-write
logicalDrive AccessPolicy	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.20.x	Information about logical drive access policy. 1: Unknown 2: Read Write 3: Read Only 4: Blocked 5: Hidden	INTEGER	read-write
logicalDrive InitState	1.3.6.1.4.1.2011.2.235.1.1.37.50.1.21	Information about logical drive init state.	INTEGER	read-only

Node Name	Node OID Instance	Description	Type	Access
	.x	1: Unknown 2: No Init 3: Quick Init 4: Full Init		
logicalDrive BGIEnable	1.3.6.1.4.1.2011.2. 235.1.1.37.50.1.22 .x	Information about logical drive BGI state. 1: Unknown 2: Disabled 3: Enabled	INTEGER	read-write
logicalDrive IsSSCD	1.3.6.1.4.1.2011.2. 235.1.1.37.50.1.23 .x	Information about logical drive if it is used for secondary cache. 1: unknown 2: no 3: yes	INTEGER	read-only
logicalDrive SSCDCachi ngEnable	1.3.6.1.4.1.2011.2. 235.1.1.37.50.1.24 .x	Information about logical drive SSCD caching state if it is not used for secondary cache. 1: unknown 2: disabled 3: enabled	INTEGER	read-write
logicalDrive AssociatedL Ds	1.3.6.1.4.1.2011.2. 235.1.1.37.50.1.25 .x	Information about logical drive associated logical drives IDs seperated by commas if it is used for secondary cache.	DisplayStri ng	read-only
logicalDrive DedicatedS parePD	1.3.6.1.4.1.2011.2. 235.1.1.37.50.1.26 .x	Information about logical drive dedicated hot spare physical drives IDs seperated by commas.	DisplayStri ng	read-only
logicalDrive Delete	1.3.6.1.4.1.2011.2. 235.1.1.37.50.1.27 .x	Delete logical drive. 1: delete	INTEGER	read-write

5.35.2 Constraints on the Create Operation

The create operation is not supported.

5.35.3 Constraints on the Modify Operation

The modify operation is not supported.

5.35.4 Constraints on the Delete Operation

The delete operation is not supported.

5.35.5 Constraints on the Query Operation

The operations of get, walk, get next, and get bulk are supported.

5.35.6 Constraints on the Set Operation

The set operation is supported.

logicalDriveDefaultReadPolicy: The values can be set are no-read-ahead(1), read-ahead(2). Set action is not available when logical drive is used for secondary cache (logicalDriveIsSSCD = Yes).

logicalDriveDefaultWritePolicy: The values can be set are write-through(1), write-back-with-bbu(2), write-back(3). The option value write-back(3) is not settable when logical drive is used for secondary cache(logicalDriveIsSSCD = Yes).

logicalDriveDefaultIOPolicy: The values can be set are cached-IO(1), direct-IO(2). Set action is not available when logical drive is used for secondary cache(logicalDriveIsSSCD = Yes).

logicalDriveDiskCachePolicy: The values can be set are disk-default(1), enabled(2), disabled(3). Set action is not available when logical drive's participated physical drives are SSD.

logicalDriveBootable: The value can be set is yes(2).



NOTE

- CacheCade logical drive can't be set as bootable drive.
- Noraml logical drive(not cachecade) during offline state can be set bootable successfully, but readback value of logicalDriveBootable is still 'No' unless change the logical drive state to online.

logicalDriveName: The type is string and maximum is 15 ASCII characters(space and visble characters).

logicalDriveAccessPolicy: The values can be set are read-write(2), read-only(3), blocked(4). Set action is not available when logical drive is used for secondary cache(logicalDriveIsSSCD = Yes).

logicalDriveBGIEEnable: The values can be set are disabled(2), enabled(3). Set action is not available when logical drive is used for secondary cache(logicalDriveIsSSCD = Yes).

logicalDriveSSCDCachingEnable: The values can be set are disabled(2), enabled(3). Set action is not available when logical drive's participated physical drives are SSD.

logicalDriveDelete: The value can be set is delete(1).

5.36 diskArrayProperty Specifications

5.36.1 Function Description

The information of disk array includes array ID, used space, free space, logical drives count, logical drives ID, physical drives, physical drives ID.

The OID of diskArrayProperty table node is

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).diskArrayProperty(39)

diskArrayDescriptionEntry describes the consist of diskArrayDescriptionTable, the OID is iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).diskArrayProperty(39).diskArrayDescriptionTable(50).diskArrayDescriptionEntry(1)

note:x is index of disk array.

Node Name	Node OID Instance	Description	Type	Access
diskArrayRAIDControllerIndex	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.1.x	Information about RAID controller index to which this disk array belongs.	INTEGER	not-accessible
diskArrayIndex	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.2.x	Information about disk array index in current RAID controller.	INTEGER	not-accessible
diskArrayUsedSpaceInMB	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.3.x	Information about the used space in MB of disk array.	INTEGER	read-only
diskArrayFreeSpaceInMB	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.4.x	Information about the free space in MB of disk array.	INTEGER	read-only
diskArrayLogicalDriveCount	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.5.x	Information about logical drive count in the disk array.	INTEGER	read-only
diskArrayLogicalDriveID	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.6.x	Information about logical drive IDs in the disk array, seperated by commas.	DisplayString	read-only
diskArrayPhysicalDriveCount	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.7.x	Information about physical drive count in the disk array.	INTEGER	read-only
diskArrayPhysicalDriveID	1.3.6.1.4.1.2011.2.235.1.1.39.50.1.8.x	Information about physical drive IDs in the disk array, seperated by commas.	DisplayString	read-only

5.36.2 Constraints on the Create Operation

The create operation is not supported.

5.36.3 Constraints on the Modify Operation

The modify operation is not supported.

5.36.4 Constraints on the Delete Operation

The delete operation is not supported.

5.36.5 Constraints on the Query Operation

The operations of get, getnext, walk, and getbulk are supported.

5.36.6 Constraints on the Set Operation

The set operation is not supported.

5.37 remoteControl Specifications

5.37.1 Function Description

The **remoteControl** table node allows you to view and set server remote control information, including the local KVM state.

The OID of the **remoteControl** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).remoteControl (40)

The following table describes the leaf nodes under the **remoteControl** table node.

Node Name	Node OID Instance	Description	Type	Access
localKVMState	1.3.6.1.4.1.2011.2.23 5.1.1.40.1.0	Local KVM display state. disable 1, enable 2. Default value is enable(2)	INTEGER	read-write

5.37.2 Constraints on the Create Operation

The create operation is not supported.

5.37.3 Constraints on the Modify Operation

The modify operation is not supported.

5.37.4 Constraints on the Delete Operation

The delete operation is not supported.

5.37.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.37.6 Constraints on the Set Operation

The set operation is supported.

5.38 twoFactorAuthentication Specifications

5.38.1 Function Description

The **twoFactorAuthentication** module allows you to view or configure two-factor authentication information, including root certificate management and client certificate management.

The OID of the **twoFactorAuthentication** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).twoFactorAuthentication(41)

Node Name	Node OID Instance	Description	Type	Access
twoFactorAuthenticationEnable	1.3.6.1.4.1.2011.2.235.1.1.41.1	The enable state of two-factor authentication. disable 1, enable 2.Default value is disable(1)	INTEGER	read-write
twoFactorAuthenticationRevocationCheck	1.3.6.1.4.1.2011.2.235.1.1.41.2	The enable state of certificate revocation check. disable 1, enable 2.Default value is disable(1).	INTEGER	read-write

The **rootCertificateDescriptionEntry** node describes the leaf nodes under the **rootCertificateDescriptionTable** table node. The OID of the **rootCertificateDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).twoFactorAuthentication(41).
rootCertificateDescriptionTable(50).rootCertificateDescriptionEntry(1)

The following table describes the leaf nodes under the **rootCertificateDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
rootCertificateIndex	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.1		INTEGER	not-accessible
rootCertificateIssued To	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.2	root certificate subject.	DisplayString	read-only
rootCertificateIssued By	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.3	root certificate issuer.	DisplayString	read-only
rootCertificateValid From	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.4	root certificate valid start data.	DisplayString	read-only
rootCertificateValid To	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.5	root certificate valid end date.	DisplayString	read-only
rootCertificateSerial Number	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.6	root certificate serial number.	DisplayString	read-only
rootCertificateImport	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.7	Import root certificate, write only. eg:/tmp/cacert.pem	DisplayString	read-write
rootCertificateDelete	1.3.6.1.4.1.2011.2.235.1.1.41.50.1.8	Information about delete root certificate.	INTEGER	read-write

The **clientCertificateDescriptionEntry** node describes the leaf nodes under the **clientCertificateDescriptionTable** table node. The OID of the **clientCertificateDescriptionEntry** node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).twoFactorAuthentication(41).
rootCertificateDescriptionTable(51).rootCertificateDescriptionEntry(1)

The following table describes the leaf nodes under the **clientCertificateDescriptionTable** table node.

Node Name	Node OID Instance	Description	Type	Access
clientCertificateIndex	1.3.6.1.4.1.2011.2.235.1.1.41.51.1.1		INTEGER	not-accessible

Node Name	Node OID Instance	Description	Type	Access
clientCertificateFingerPrint	1.3.6.1.4.1.2011.2.235.1.1.41.51.1.2	The client certificate finger print.	DisplayString	read-only
clientCertificateImport	1.3.6.1.4.1.2011.2.235.1.1.41.51.1.3	Import client certificate,write only. eg:/tmp/clientcert.pem	DisplayString	read-write
clientCertificateDelete	1.3.6.1.4.1.2011.2.235.1.1.41.51.1.4	Information about delete client certificate.one of the following:(delete(1)).	INTEGER	read-write

5.38.2 Constraints on the Create Operation

The create operation is not supported.

5.38.3 Constraints on the Modify Operation

The modify operation is not supported.

5.38.4 Constraints on the Delete Operation

The delete operation is not supported.

5.38.5 Constraints on the Query Operation

The get, walk, get next, and get bulk operations are supported.

5.38.6 Constraints on the Set Operation

When performing the set operation, pay attention to the following nodes:

- twoFactorAuthenticationEnable: The value is **1** (disabled) or **2** (enabled).
- twoFactorAuthenticationRevocationCheck: The value is **1** (disabled) or **2** (enabled)

5.39 configuration Specifications

5.39.1 Function Description

The **configuration** table node allows you to import and export BMC and BIOS configuration and query import and export status (import and export progress and error information).

The OID of the **configuration** table node is as follows:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).huawei(2011).products(2).hwServer(235).hwBMC(1).hwiBMC(1).configuration(42)

The following table describes the leaf nodes in the **configuration** scalar table.

Node Name	Node OID Instance	Description	Type	Access
exportconfig	1.3.6.1.4.1.2011.2.235.1.1.42.1.0	Start to export BMC and BIOS configuration. The input value is file path or URL.	DisplayString	read-write
importconfig	1.3.6.1.4.1.2011.2.235.1.1.42.2.0	Start to import BMC and BIOS configuration. The input value is file path or URL.	DisplayString	read-write
configprogress	1.3.6.1.4.1.2011.2.235.1.1.42.3.0	Query import/export configuration state. The return value is percentage of importing/exporting configuration.	DisplayString	read-only
configerrorinfo	1.3.6.1.4.1.2011.2.235.1.1.42.4.0	Query error information of importing/exporting configuration.	DisplayString	read-only

5.39.2 Constraints on the Create Operation

The create operation is not supported.

5.39.3 Constraints on the Modify Operation

The modify operation is not supported.

5.39.4 Constraints on the Delete Operation

The delete operation is not supported.

5.39.5 Constraints on the Query Operation

The get, getnext, walk, and getbulk operations are supported.

5.39.6 Constraints on the Set Operation

The set operation is supported.

When performing the set operation, pay attention to the following nodes:

- exportconfigstart: local BMC path or remote server URL
- importconfigstart: local BMC path or remote server URL

6 Trap Specifications

This chapter describes OID specifications for SNMP trap alarms.

Each OID corresponds to a type of alarm. You can select to-be-bound variables for each alarm from the following ones, depending on the alarm type:

- hwTrapSeq
- hwTrapSensorName
- hwTrapEvent
- hwTrapSeverity
- hwTrapEventCode
- hwTrapEventDate2
- hwTrapEventDate3
- hwTrapSeverIdentity
- hwTrapLocation
- hwTrapTime

The value of **hwTrapSeverity** can be **ok(1)**, **minor(2)**, **major(3)**, or **critical(4)**.

The following sections list the values of **hwTrapSeverity** and **hwTrapEventCode** of each alarm for your reference.

Deassert alarms in the following sections are clear alarms. For system events that do not have clear alarms, configure the alarms to be cleared during board power-off. The ID of an asset event reported during board power-off is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.17. For details, see section 0"

hwFirmwareChange."

6.1 hwOEM

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1.1.

Object	Bound Variables	Description	Status	Severity	Event Code
hwOEMEvent	1: hwTrapSeq 2: hwTrapEvent 3: hwTrapSeverity 4: hwTrapEventData2 5: hwTrapEventData3 6: hwTrapSeverIdentity 7: hwTrapLocation 8: hwTrapTime	Huawei OEM event	Current	OK	FFFFFFFF

6.2 hwPhysicalSecurity

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.5.1.

Object	Bound Variables	Description	Status	Severity	Event Code
hwChassisIntrusion	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	General Chassis Intrusion	Current	OK	0500FFFF

6.3 hwCPU

6.3.1 hwCPUCATError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.1.

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUCATError	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU CAT error	Current	Critical	0700FFFF

6.3.2 hwCPUCATErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.2.

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUCATErrorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU CAT error deassert	Current	Critical	0780FFFF

6.3.3 hwCPUThermalTrip

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.17.

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUThermalTrip	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU thermal trip	Current	Critical	0701FFFF

6.3.4 hwCPUThermalTripDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUThermalTripDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU thermal trip deassert	Current	Critical	0781FFFF

6.3.5 hwCPUSelfTestFail

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUSelfTestFail	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU FRB1/BIST failure	Current	Critical	0702FFFF

6.3.6 hwCPUSelfTestFailDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.34.

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUSelfTestFailDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU FRB1/BIST failure deassert	Current	Critical	0782FFFF

6.3.7 hwCPUCfgError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.81

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUCfgError	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU configure error	Current	Critical	0705FFFF

6.3.8 hwCPUCfgErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.82

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUCfgErrorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU configure error deassert	Current	Critical	0785FFFF

6.3.9 hwCPUPresence

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.113

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUPresence	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU Presence	Current	OK	0707FFFF

6.3.10 hwCPUPresenceDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.114

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUPresenceDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU Presence deassert	Current	OK	0787FFFF

6.3.11 hwCPUOffline

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.129

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUOffline	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU offline	Current	OK	0708FFFF

6.3.12 hwCPUOfflineDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.130

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUOfflineDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU offline deassert	Current	OK	0788FFFF

6.3.13 hwCPUMCE

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.177

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUMCE	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU MCE occured	Current	Critical	070BFFFF

6.3.14 hwCPUMCEDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.178

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUMCEDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU MCE deassert	Current	Critical	078BFFFF

6.3.15 hwVMSELLinkFail

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.193

Object	Bound Variables	Description	Status	Severity	Event Code
hwVMSELinkFail	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU VMSE link failure in mirror mode	Current	OK	070CFFFF

6.3.16 hwVMSELinkFailDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.7.194

Object	Bound Variables	Description	Status	Severity	Event Code
hwVMSELinkFailDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU VMSE link failure in mirror mode deassert	Current	OK	078CFFFF

6.4 hwPowerSupply

6.4.1 hwPowerSupplyFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power Supply Fault	Current	Major	0801FFFF

6.4.2 hwPowerSupplyFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power Supply Fault Deassert	Current	Major	0881FFFF

6.4.3 hwPowerSupplyPredictiveFailure

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyPredictiveFailure	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power Supply Predictive Failure	Current	Critical	0802FFFF

6.4.4 hwPowerSupplyPredictiveFailureDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyPredictiveFailureDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power Supply Predictive Failure Deassert	Current	Critical	0882FFFF

6.4.5 hwPowerSupplyInputLost

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.49

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyInputLost	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power Supply input lost	Current	Critical	0803FFFF

6.4.6 hwPowerSupplyInputLostDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.50

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyInputLostDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power Supply input lost Deassert	Current	Critical	0883FFFF

6.4.7 hwPowerSupplyACLost

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.65

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyACLost	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	AC lost or out-of-range	Current	Critical	0804FFFF

6.4.8 hwPowerSupplyACLostDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.8.66

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerSupplyACLostDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	AC lost or out-of-range Deassert	Current	Critical	0884FFFF

6.5 hwMemory

6.5.1 hwCorrectableECC

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwCorrectableECC	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory correctable ECC error occurred	Current	OK	0C00FFFF

6.5.2 hwCorrectableECCDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwCorrectableECCDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory correctable ECC error deassert	Current	OK	0C80FFFF

6.5.3 hwUncorrectableECC

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwUncorrectableECC	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory uncorrectable ECC error occurred	Current	Critical	0C01FFFF

6.5.4 hwUncorrectableECCDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwUncorrectableECCDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory uncorrectable ECC error deassert	Current	Critical	0C81FFFF

6.5.5 hwMemoryECCLimitation

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.81

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryECCLimitation	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory correctable ECC logging limit reached detected	Current	Critical	0C05FFFF

6.5.6 hwMemoryECCLimitationDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.82

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryECCLimitationDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory correctable ECC logging limit reached deassert	Current	Critical	0C85FFFF

6.5.7 hwMemoryPresence

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.97

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryPresence	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory presence detected	Current	OK	0C06FFF F

6.5.8 hwMemoryPresenceDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.98

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryPresenceDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory presence deassert	Current	OK	0C86FFF F

6.5.9 hwMemoryCfgError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.113

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryCfgError	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory config error detected	Current	Critical	0C07FFFF

6.5.10 hwMemoryCfgErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.114

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryCfgErrorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory config error deassert	Current	Critical	0C87FFFF

6.5.11 hwMemorySpare

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.129

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemorySpare	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory spare detected	Current	OK	0C08FFF F

6.5.12 hwMemorySpareDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.130

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemorySpareDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory spare deassert	Current	OK	0C88FFF F

6.5.13 hwMemoryOvertemp

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.161

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryOvertemp	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory overtemperature detected	Current	Major	0C0AFF FF

6.5.14 hwMemoryOvertempDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.12.162

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryOvertempDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	memory overtemperature deassert	Current	Major	0C8AFF FF

6.6 hwStorageDevice

6.6.1 hwStorageDevicePresence

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwStorageDevicePresence	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapServerIdentity 9: hwTrapLocation 10: hwTrapTime	Storage device presence detected	Current	OK	0D00FFFF

6.6.2 hwStorageDevicePresenceDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwStorageDevicePresenceDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Storage device presence deassert	Current	OK	0D80FFFF

6.6.3 hwStorageDeviceFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwStorageDeviceFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Storage device fault detected	Current	Major	0D01FFF F

6.6.4 hwStorageDeviceFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwStorageDeviceFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Storage device fault deassert	Current	Major	0D81FFF F

6.6.5 hwStorageDevicePredictiveFailure

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwStorageDevicePredictiveFailure	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Storage device predictive failure	Current	Minor	0D02FFF F

6.6.6 hwStorageDevicePredictiveFailureDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwStorageDevicePredictiveFailureDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Storage device predictive failure deassert	Current	Minor	0D82FFF F

6.6.7 hwRAIDArrayFail

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.97

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDArrayFail	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID array fail detected	Current	Major	0D06FFF F

6.6.8 hwRAIDArrayFailDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.98

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDArrayFailDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID array fail deassert	Current	Major	0D86FFF F

6.6.9 hwRAIDRebuild

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.113

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDRebuild	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID rebuild detected	Current	OK	0D07FFFF

6.6.10 hwRAIDRebuildDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.114

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDRebuild Deassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID rebuild deassert	Current	OK	0D87FFFF

6.6.11 hwRAIDRebuildAborted

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.129

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDRebuildAborted	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID rebuild aborted detected	Current	Major	0D08FFFF

6.6.12 hwRAIDRebuildAbortedDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.13.130

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDRebuildAbortedDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID rebuild aborted deassert	Current	Major	0D88FFFF

6.7 hwSysFwProgress

6.7.1 hwSystemFirmwareHang

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemFirmwareHang	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System firmware hang	Current	Critical	0F01FFFF

6.7.2 hwSystemFirmwareHangDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemFirmwareHangDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System firmware hang deassert	Current	Critical	0F81FFFF

6.7.3 hwPS2USBFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.1793

Object	Bound Variables	Description	Status	Severity	Event Code
hwPS2USBFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Unrecoverable PS/2 or USB keyboard failure	Current	Critical	0F0007FF

6.7.4 hwPS2USBFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.1794

Object	Bound Variables	Description	Status	Severity	Event Code
hwPS2USBFault Deassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Unrecoverable PS/2 or USB keyboard failure deassert	Current	Critical	0F8007FF

6.7.5 hwVideoControllerFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.2305

Object	Bound Variables	Description	Status	Severity	Event Code
hwVideoControllerFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Unrecoverable video controller failure	Current	Critical	0F0009FF

6.7.6 hwVideoControllerFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.2306

Object	Bound Variables	Description	Status	Severity	Event Code
hwVideoControllerFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Unrecoverable video controller failure deassert	Current	Critical	0F8009FF

6.7.7 hwCPUVoltageMismatch

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.3073

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUVoltageMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU voltage mismatch	Current	Critical	0F000CFF

6.7.8 hwCPUVoltageMismatchDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.3074

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUVoltageMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU voltage mismatch deassert	Current	Critical	0F800CFF

6.7.9 hwSystemNoMemory

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.257

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemNoMemory	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System no memory detected	Current	Critical	0F0001FF

6.7.10 hwSystemNoMemoryDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.15.258

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemNoMemoryDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System no memory detected deassert	Current	Critical	0F8001FF

6.8 hwSysEvent

6.8.1 hwSystemError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.18.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemError	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System hang up/reset. For more information, see the background log	Current	Critical	1202FFFF

6.8.2 hwSystemErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.18.35

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemError Deassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System hang up/reset deassert	Current	Critical	1282FFFF

6.8.3 hwSysEventInstance

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.18.65

Object	Bound Variables	Description	Status	Severity	Event Code
hwSysEventInstance	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	PEF action	Current	OK	1204FFFF

6.9 hwPowerButton

6.9.1 hwPowerButtonPressed

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.20.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerButtonPressed	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power button pressed	Current	OK	1400FFFF

6.10 hwCable

6.10.1 hwCableStatus

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.27.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwCableStatus	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	SAS or Harddisk backplane cable config error	Current	Major	1B01FFFF

6.10.2 hwCableStatusDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.27.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwCableStatusDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	SAS or Harddisk backplane cable config error deassert	Current	Major	1B81FFFF

6.11 hwSysRestart

6.11.1 hwSysRestartUnknown

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.29.113

Object	Bound Variables	Description	Status	Severity	Event Code
hwSysRestartUnknown	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	system restart cause unknown	Current	OK	1D0700FF

6.11.2 hwSysRestartChassisCtrl

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.29.369

Object	Bound Variables	Description	Status	Severity	Event Code
hwSysRestartChassisCtrl	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5:hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	system restart cause chassis control	Current	OK	1D070101/1D07 010F/ 1D070100/1D07 010D/ 1D070108/1D07 010E

6.11.3 hwSysRestartPowerButton

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.29.881

Object	Bound Variables	Description	Status	Severity	Event Code
hwSysRestartPowerButton	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	system restart cause power button pressed	Current	OK	1D0703FF

6.11.4 hwSysRestartWatchdogCtrl

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.29.1137

Object	Bound Variables	Description	Status	Severity	Event Code
hwSysRestartWatchdogCtrl	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	system restart cause Watchdog control	Current	OK	1D0704FF

6.11.5 hwSysRestartAlwaysRestore

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.29.1649

Object	Bound Variables	Description	Status	Severity	Event Code
hwSysRestartAlwaysRestore	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	system restart cause always power up	Current	OK	1D0706FF

6.11.6 hwSysRestartRestorePrevState

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.29.1905

Object	Bound Variables	Description	Status	Severity	Event Code
hwSysRestartRestorePrevState	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	system restart cause always restore previous state	Current	OK	1D0707FF

6.12 hwBootError

6.12.1 hwNoBootableMedia

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwNoBootableMedia	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, no bootable media	Current	OK	1E00FFFF

6.12.2 hwNoBootableMediaDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwNoBootableMediaDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, no bootable media deassert	Current	OK	1E80FFFF

6.12.3 hwNoBootableDisk

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwNoBootableDisk	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, Non-bootable disk in drive	Current	OK	1E01FFFF

6.12.4 hwNoBootableDiskDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwNoBootableDiskDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, Non-bootable disk in drive deassert	Current	OK	1E81FFFF

6.12.5 hwPXENotFound

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwPXENotFound	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, PXE server not found	Current	OK	1E02FFFF

6.12.6 hwPXENotFoundDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwPXENotFoundDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, PXE server not found deassert	Current	OK	1E82FFFF

6.12.7 hwInvalidBootSector

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.49

Object	Bound Variables	Description	Status	Severity	Event Code
hwInvalidBootSector	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, Invalid boot sector	Current	OK	1E03FFFF

6.12.8 hwInvalidBootSectorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.30.50

Object	Bound Variables	Description	Status	Severity	Event Code
hwInvalidBootSectorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	boot error, Invalid boot sector deassert	Current	OK	1E83FFFF

6.13 hwDeviceFault

6.13.1 hwHardwareAddrFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwHardwareAddrFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Hardware address in fault status	Current	Major	2100FFFF

6.13.2 hwHardwareAddrFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwHardwareAddrFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Hardware address in fault status deassert	Current	Major	2180FFFF

6.13.3 hwLossBmaHeartBeat

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwLossBmaHeartBeat	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Heartbeat signals between the iBMC and iBMA are lost	Current	Normal	2101FFFF

6.13.4 hwLossBmaHeartBeatDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwLossBmaHeartBeatDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Heartbeat signals between the iBMC and iBMA are normal	Current	Normal	2181FFFF

6.13.5 hwDeviceInstall

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwDeviceInstall	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Device installed	Current	OK	2102FFFF

6.13.6 hwDeviceInstallDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwDeviceInstallDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Device installed deassert	Current	OK	2182FFFF

6.13.7 hwEthLinkDown

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.129

Object	Bound Variables	Description	Status	Severity	Event Code
hwEthLinkDown	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System Eth link down	Current	OK	2108FFFF

6.13.8 hwEthLinkDownDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.130

Object	Bound Variables	Description	Status	Severity	Event Code
hwEthLinkDown Deassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	System Eth link down deassert	Current	OK	2188FFFF

6.13.9 hwMemBrdMigrate

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.145

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemBrdMigrate	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Spare Device	Current	OK	2109FFFF

6.13.10 hwMemBrdMigrateDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.146

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemBrdMigrateDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Spare Device deassert	Current	OK	2189FFFF

6.13.11 hwPCIEStatus

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.257

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCIEStatus	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	PCIe Error	Current	Major	2100FFFF

6.13.12 hwPCIEStatusDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.258

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCIEStatusDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	PCIe Error deassert	Current	Major	2180FFFF

6.13.13 hwFanFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.2049

Object	Bound Variables	Description	Status	Severity	Event Code
hwFanFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fan in fault status	Current	Major	2100FFFF

6.13.14 hwFanFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.2050

Object	Bound Variables	Description	Status	Severity	Event Code
hwFanFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fan in fault status deassert	Current	Major	2180FFFF

6.13.15 hwPCIEFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.2305

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCIEFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	PCIe in fault status	Current	Major	210009FF

6.13.16 hwPCIEFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.33.2306

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCIEFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	PCIe in fault status deassert	Current	Major	218009FF

6.14 hwACPIStatus

6.14.1 hwACPIStatusS0

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.34.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwACPIStatusS0	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	ACPI status S0	Current	OK	2200FFFF

6.14.2 hwACPIStatusS4S5

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.34.97

Object	Bound Variables	Description	Status	Severity	Event Code
hwACPIStatusS4S5	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	ACPI status, S4/S5 soft-off, particular when S4/S5 state cannot be determined	Current	OK	2206FFFF

6.15 hwWatchDog

6.15.1 hwWatchDogOverflow

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogOverflow	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, no action	Current	OK	2300FFFF

6.15.2 hwWatchDogOverflowDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogOverflowDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, no action deassert	Current	OK	2380FFFF

6.15.3 hwWatchDogReset

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogReset	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, hard reset	Current	Major	2301FFFF

6.15.4 hwWatchDogResetDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogResetDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, hard reset deassert	Current	Major	2381FFFF

6.15.5 hwWatchDogPowerDown

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogPowerDown	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, power down	Current	Major	2302FFFF

6.15.6 hwWatchDogPowerDownDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogPowerDownDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, power down deassert	Current	Major	2382FFFF

6.15.7 hwWatchDogPowerCycle

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.49

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogPowerCycle	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, power cycle	Current	Major	2303FFFF

6.15.8 hwWatchDogPowerCycleDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.35.50

Object	Bound Variables	Description	Status	Severity	Event Code
hwWatchDogPowerCycleDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	watchdog overflow, power cycle deassert	Current	Major	2383FFFF

6.16 hwLANHeartBeat

6.16.1 hwLANHeartLost

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.39.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwLANHeartLost	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	LAN heart beat lost	Current	Major	2700FFFF

6.16.2 hwLANHeartLostDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.39.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwLANHeartLostDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	LAN heart beat lost deassert	Current	Major	2780FFFF

6.17 hwMngmntHealth

6.17.1 hwSensorAccessibleFail

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.40.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwSensorAccessibleFail	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Sensor access degraded or unavailable	Current	Minor	2800FFFF

6.17.2 hwSensorAccessibleFailDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.40.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwSensorAccessibleFailDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Sensor access degraded or unavailable deassert	Current	Minor	2880FFFF

6.17.3 hwControllerAccessibleFail

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.40.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwControllerAccessibleFail	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Controller access degraded or unavailable	Current	Major	2801FFFF

6.17.4 hwControllerAccessibleFailDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.40.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwControllerAccessibleFailDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Controller access degraded or unavailable deassert	Current	Major	2881FFFF

6.17.5 hwFruFail

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.40.81

Object	Bound Variables	Description	Status	Severity	Event Code
hwFruFail	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	FRU failure	Current	OK	2805FFFF

6.17.6 hwFruFailDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.40.82

Object	Bound Variables	Description	Status	Severity	Event Code
hwFruFailDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	FRU failure deassert	Current	OK	2885FFFF

6.18 hwBattery

6.18.1 hwRTCBatterylow

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.41.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwRTCBatterylow	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RTC battery or RAID Card BBU voltage low	Current	Major	2900FFFF

6.18.2 hwRTCBatterylowDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.41.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwRTCBatterylowDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RTC battery or RAID Card BBU voltage low deassert	Current	Major	2980FFFF

6.18.3 hwRAIDCardBBUFailed

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.41.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDCardBBUFailed	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9:hwTrapLocation 10:hwTrapTime	RAID card BBU failed	Current	Major	2901FFFF

6.18.4 hwRAIDCardBBUFailedDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.41.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDCardBBUFailed	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9:hwTrapLocation 10:hwTrapTime	RAID card BBU failure deassert	Current	Major	2981FFFF

6.18.5 hwRAIDCardBBUPresence

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.41.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDCardBBUPresence	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9:hwTrapLocation 10:hwTrapTime	RAID card BBU is present	Current	OK	2902FFFF

6.18.6 hwRAIDCardBBUPresenceDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.41.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwRAIDCardBBUPresence	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9:hwTrapLocation 10:hwTrapTime	RAID card BBU is absent	Current	OK	2982FFFF

6.19 hwVerChange

6.19.1 hwHardwareChange

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.43.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwHardwareChange	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Hardware change detected with associated Entity	Current	OK	2B00FFFF

6.19.2 hwFirmwareChange

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.43.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwFirmwareChange	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Firmware or software change detected with associated Entity	Current	OK	2B01FFFF

6.20 hwLCD

6.20.1 hwLCDFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1052.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwLCDFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	LCD fault	Current	Minor	0441FFFF

6.20.2 hwLCDFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1052.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwLCDFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	LCD fault deassert	Current	Minor	04C1FFFF

6.21 hwHotSwap

6.21.1 hwHotSwaptom0

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM0	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M0 status	Current	OK	F000FFFF

6.21.2 hwHotSwaptoM1

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM1	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M1 status	Current	OK	F001FFFF

6.21.3 hwHotSwaptoM2

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM2	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M2 status	Current	OK	F002FFFF

6.21.4 hwHotSwaptoM3

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.49

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM3	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M3 status	Current	OK	F003FFFF

6.21.5 hwHotSwaptoM4

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.65

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM4	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M4 status	Current	OK	F004FFFF

6.21.6 hwHotSwaptoM5

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.81

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM5	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M5 status	Current	OK	F005FFFF

6.21.7 hwHotSwaptoM6

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.97

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM6	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M6 status	Current	OK	F006FFFF

6.21.8 hwHotSwaptoM7

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.240.113

Object	Bound Variables	Description	Status	Severity	Event Code
hwHotSwaptoM7	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fru hot swap to M7 status	Current	Major	F007FFFF

6.22 hwIPMBLink

6.22.1 hwIPMBLinkStateAll

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.241.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwIPMBLinkStateAll	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	IPMB-A disabled. IPMB-B disabled	Current	Major	F100FFFF

6.22.2 hwIPMBLinkStateAllDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.241.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwIPMBLinkStateAllDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	IPMB-A disabled. IPMB-B disabled deassert	Current	Major	F180FFFF

6.22.3 hwIPMBLinkStateB

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.241.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwIPMBLinkStateB	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	IPMB-A enabled. IPMB-B disabled	Current	Major	F101FFFF

6.22.4 hwIPMBLinkStateBDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.241.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwIPMBLinkStateBDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	IPMB-A enabled. IPMB-B disabled deassert	Current	Major	F181FFFF

6.22.5 hwIPMBLinkStateA

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.241.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwIPMBLinkStateA	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	IPMB-A disabled. IPMB-B enabled	Current	Major	F102FFFF

6.22.6 hwIPMBLinkStateADeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.241.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwIPMBLinkStateADeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	IPMB-A disabled. IPMB-B enabled deassert	Current	Major	F182FFFF

6.22.7 hwIPMBLinkStateNoFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.241.49

Object	Bound Variables	Description	Status	Severity	Event Code
hwIPMBLinkStateNoFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	IPMB bus no fault	Current	OK	F103FFFF

6.23 hwTrapTest

6.23.1 hwTrapTestInstance

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.256.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwTrapTestInstance	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	trap test	Current	OK	00000001

6.24 hwOvertemperature

6.24.1 hwOvertempMinor

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.257.113

Object	Bound Variables	Description	Status	Severity	Event Code
hwOvertempMinor	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	temperature above minor threshold	Current	Minor	0147FFFF

6.24.2 hwOvertempMinorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.257.114

Object	Bound Variables	Description	Status	Severity	Event Code
hwOvertempMinorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	temperature above minor threshold deassert	Current	Minor	01C7FFFF

6.24.3 hwOvertempMajor

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.257.145

Object	Bound Variables	Description	Status	Severity	Event Code
hwOvertempMajor	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	temperature above major threshold	Current	Major	0149FFFF

6.24.4 hwOvertempMajorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.257.146

Object	Bound Variables	Description	Status	Severity	Event Code
hwOvertempMajorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	temperature above major threshold deassert	Current	Major	01C9FFFF

6.24.5 hwOvertempCritical

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.257.177

Object	Bound Variables	Description	Status	Severity	Event Code
hwOvertempCritical	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	temperature above critical threshold	Current	Critical	014BFFFF

6.24.6 hwOvertempCriticalDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.257.178

Object	Bound Variables	Description	Status	Severity	Event Code
hwOvertempCriticalDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	temperature above critical threshold deassert	Current	Critical	01CBFFFF

6.25 hwNoSDCard

6.25.1 hwNoSDCardAssert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.781.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwNoSDCardAssert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	No SD Card Assert	Current	Major	0341FFFF

6.25.2 hwNoSDCardDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.781.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwNoSDCardDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	No SD Card Deassert	Current	Major	03C1FFFF

6.26 hwAddInCard

6.26.1 hwPCIEError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.791.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCIEError	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	PCIe Error	Current	Critical	0341FFFF

6.26.2 hwPCIEErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.791.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCIEErrorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	PCIe Error Deassert	Current	Critical	03C1FFFF

6.27 hwChipSet

6.27.1 hwPCHError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.793.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCHError	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Uncorrectable PCH error	Current	Critical	0341FFFF

6.27.2 hwPCHErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.793.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwPCHErrorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Uncorrectable PCH error Deassert	Current	Critical	03C1FFFF

6.28 hwUIDButton

6.28.1 hwUIDButtonPressed

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.788.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwUIDButtonPressed	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	UID button pressed	Current	OK	0341FFFF

6.29 hwPowerCapping

6.29.1 hwPowerCapFail

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1042.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerCapFail	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power capping fail assert	Current	Minor	0441FFFF

6.29.2 hwPowerCapFailDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1042.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwPowerCapFailDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Power capping fail assert	Current	Minor	04C1FFFF

6.30 hwCardFault

6.30.1 hwCardStatusFault

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1047.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwCardStatusFault	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID or NIC card fault	Current	Minor	0441FFFF

6.30.2 hwCardStatusFaultDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1047.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwCardStatusFaultDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	RAID or NIC card fault deassert	Current	Minor	04C1FFFF

6.31 hwCPUUsage

6.31.1 hwCPUUsageHigh

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1287.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUUsageHigh	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU usage over threshold	Current	Major	0541FFFF

6.31.2 hwCPUUsageHighDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1287.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUUsageHighDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU usage over threshold deassert	Current	Major	05C1FFFF

6.32 hwMemoryUsage

6.32.1 hwMemoryUsageHigh

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1292.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryUsageHigh	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory usage over threshold	Current	Major	0541FFFF

6.32.2 hwMemoryUsageHighDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1292.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryUsageHighDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory usage over threshold deassert	Current	Major	05C1FFFF

6.33 hwDiskUsage

6.33.1 hwDiskUsageHigh

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1293.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwDiskUsageHigh	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Disk usage over threshold	Current	Major	0541FFFF

6.33.2 hwDiskUsageHighDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1293.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwDiskUsageHighDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Disk usage over threshold deassert	Current	Major	05C1FFF F

6.34 hwSysNotice

6.34.1 hwSystemWarmReset

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1810.129

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemWarmReset	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Uncorrectable system error. Unable to locate the specific failure, please warm reset the host to try to solve the problem	Current	OK	0748FFFF

6.34.2 hwSystemWarmResetDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1810.130

Object	Bound Variables	Description	Status	Severity	Event Code
hwSystemWarmResetDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Uncorrectable system error deassert	Current	OK	07C8FFFF

6.35 hwModule

6.35.1 hwModuleCritical

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1813.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwModuleCritical	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	transition to Critical from less severe	Current	Minor	0742FFFF

6.36 hwPSPresenceStatus

6.36.1 hwPSPresence

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2057.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwPSPresence	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	power supply presence	Current	OK	0841FFFF

6.36.2 hwPSPresenceDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2057.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwPSPresence Deassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	power supply presence deassert	Current	OK	08C1FFFF

6.37 hwFanPresenceStatus

6.37.1 hwFanAbsent

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2058.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwFanAbsent	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fan absent	Current	Major	0840FFFF

6.37.2 hwFanAbsentDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2058.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwFanAbsentDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	fan absent deassert	Current	Major	08C0FFFF

6.38 hwCardPresenceStatus

6.38.1 hwCardPresence

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2071.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwCardPresence	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	card presence	Current	OK	0841FFFF

6.38.2 hwCardPresenceDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2071.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwCardPresenceDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	card presence deassert	Current	OK	08C1FFFF

6.39 hwLCDPresenceStatus

6.39.1 hwLCDAbsent

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2076.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwLCDAbsent	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	LCD absent	Current	OK	0840FFFF

6.39.2 hwLCDAbsentDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2076.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwLCDAbsentDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	LCD absent deassert	Current	OK	08C0FFFF

6.40 hwCPUCore

6.40.1 hwCPUCoreIsolation

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2311.1

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUCoreIsolation	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU core isolation	Current	OK	0940FFFF

6.40.2 hwCPUCoreIsolationDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2311.2

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUCoreIsolationDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU core isolation deassert	Current	OK	09C0FFFF

6.41 hwMemoryRiser

6.41.1 hwMemoryRiserOnline

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2583.49

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryRiserOnline	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory board online	Current	OK	0A43FFFF

6.41.2 hwMemoryRiserOnlineDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2583.50

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryRiserOnlineDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory board online deassert	Current	OK	0AC3FFFF

6.41.3 hwMemoryRiserOffline

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2583.65

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryRiserOffline	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory board offline	Current	OK	0A44FFFF

6.41.4 hwMemoryRiserOfflineDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2583.66

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryRiserOfflineDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory board offline deassert	Current	OK	0AC4FFFF

6.41.5 hwMemoryRiserInstallError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2583.129

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryRiserInstallError	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory riser install error	Current	Major	0A48FFFF

6.41.6 hwMemoryRiserInstallErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2583.130

Object	Bound Variables	Description	Status	Severity	Event Code
hwMemoryRiserInstallErrorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory riser install error deassert	Current	Major	0AC8FFFF

6.42 hwVoltage

6.42.1 hwLowerVoltageMajor

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.258.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwLowerVoltageMajor	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Voltage below lower major threshold	Current	Major	0142FFFF

6.42.2 hwLowerVoltageMajorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.258.34

Object	Bound Variables	Description	Status	Severity	Event Code
hwLowerVoltageMajorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Voltage below lower major threshold deassert	Current	Major	01C2FFFF

6.42.3 hwOverVoltageMajor

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.258.145

Object	Bound Variables	Description	Status	Severity	Event Code
hwOverVoltageMajor	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Voltage over upper major threshold	Current	Major	0149FFFF

6.42.4 hwOverVoltageMajorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.258.146

Object	Bound Variables	Description	Status	Severity	Event Code
hwOverVoltageMajorDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Voltage over upper major threshold deassert	Current	Major	01C9FFFF

6.42.5 hwOverVoltageCritical

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.258.177

Object	Bound Variables	Description	Status	Severity	Event Code
hwOverVoltageCritical	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Voltage over upper critical threshold	Current	Critical	014BFFFF

6.42.6 hwOverVoltageCriticalDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.258.178

Object	Bound Variables	Description	Status	Severity	Event Code
hwOverVoltageCriticalDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Voltage over upper critical threshold deassert	Current	Critical	01CBFFFF

6.43 hwCPUProchot

6.43.1 hwCPUProchotState

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.775.17

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUProchotState	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU Prochot state asserted	Current	Major	0341FFFF

6.43.2 hwCPUProchotStateDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.775.18

Object	Bound Variables	Description	Status	Severity	Event Code
hwCPUProchotStateDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8:hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU Prochot state deasserted	Current	Major	03C1FFFF

6.44 hwSELStatus

6.44.1 hwSELCleared

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.16.33

Object	Bound Variables	Description	Status	Severity	Event Code
hwSELClearedAssert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	SEL log area is cleared.	Current	OK	1002FFFF

6.44.2 hwSELAlmostFull

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.16.81.

Object	Bound Variables	Description	Status	Severity	Event Code
hwSELAlmostFullAssert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	SEL almost full assert	Current	OK	1005FFFF

6.44.3 hwSELAlmostFullDeasserted

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.16.82.

Object	Bound Variables	Description	Status	Severity	Event Code
hwSELAAlmostFullDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	SEL almost full deassert	Current	OK	1085FFFF

6.45 hwPSRedundancy

6.45.1 hwPSRedundancyLost

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2824.17.

Object	Bound Variables	Description	Status	Severity	Event Code
hwPSRedundancyLost	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapSeverIdentity 7: hwTrapLocation 8: hwTrapTime	PS redundancy lost	Current	Major	0B41FFFF

6.45.2 hwPSRedundancyLostDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2824.18.

Object	Bound Variables	Description	Status	Severity	Event Code
hwPSRedundancyLostDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapSeverIdentity 7: hwTrapLocation 8: hwTrapTime	PS redundancy lost deassert	Current	Major	0BC1FFFF

6.46 hwBMCBootUp

6.46.1 hwBMCBootUp

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.2326.17.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBMCBootUpAssert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	BMC boot up	Current	OK	0941FFFF

6.47 hwLog

6.47.1 hwLogFull

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1808.129.

Object	Bound Variables	Description	Status	Severity	Event Code
hwLogFull	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Informational	Current	OK	0748FFFF

6.47.2 hwLogFullDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.1808.130.

Object	Bound Variables	Description	Status	Severity	Event Code
hwLogFullDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Informational deasserted	Current	OK	07C8FFFF

6.48 hwBoardMismatch

6.48.1 hwBoardMismatch

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.786.17.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Fault status	Current	Major	2100FFFF

6.48.2 hwBoardMismatchDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.10.786.18.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Fault status	Current	OK	2180FFFF

6.49 hwMemoryConfigError

6.49.1 hwMemoryConfigError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500.11.2.37.

Object	Bound Variables	Description	Status	Severity	Event Code
--------	-----------------	-------------	--------	----------	------------

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Fault status Memory configuration error	Current	Critical	01000025

6.49.2 hwMemoryConfigErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.2.38.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory configuration error deassert	Current	Critical	01000026

6.50 hwMemoryInitializationError

6.50.1 hwMemoryInitializationError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.2.39.

Object	Bound Variables	Description	Status	Severity	Event Code
--------	-----------------	-------------	--------	----------	------------

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory configuration error	Current	Critical	01000027

6.50.2 hwMemoryInitializationErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.2.40.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory configuration error deassert	Current	Critical	01000028

6.51 hwCPUMemoryConfigError

6.51.1 hwCPUMemoryConfigError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.45.75.

Object	Bound Variables	Description	Status	Severity	Event Code
--------	-----------------	-------------	--------	----------	------------

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU memory configuration error	Current	Critical	2C00004B

6.51.2 hwCPUMemoryConfigErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.45.76.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU memory configuration error deassert	Current	Critical	2C00004C

6.52 hwCPUMRCFatalError

6.52.1 hwCPUMRCFatalError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.45.77.

Object	Bound Variables	Description	Status	Severity	Event Code
--------	-----------------	-------------	--------	----------	------------

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU memory MRC fatal error	Current	Critical	2C00004D

6.52.2 hwCPUMRCFatalErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.45.78.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU memory MRC fatal error deassert	Current	Critical	2C00004E

6.53 hwNoAvailableMemoryError

6.53.1 hwNoAvailableMemoryError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.45.79.

Object	Bound Variables	Description	Status	Severity	Event Code
--------	-----------------	-------------	--------	----------	------------

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU has no available memory	Current	Critical	2C00004F

6.53.2 hwNoAvailableMemoryErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.45.80.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	CPU has no available memory deassert	Current	Critical	2C000050

6.54 hwMemoryBoardSMI2TainingError

6.54.1 hwMemoryBoardSMI2TainingError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.15.5.

Object	Bound Variables	Description	Status	Severity	Event Code
--------	-----------------	-------------	--------	----------	------------

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory board SMI2 training error	Current	Critical	2E000005

6.54.2 hwMemoryBoardSMI2TainingErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.15.6.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Memory board SMI2 training error deassert	Current	Critical	2E000006

6.55 hwMainboardSMI2TainingError

6.55.1 hwMainboardSMI2TainingError

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.17.155.

Object	Bound Variables	Description	Status	Severity	Event Code
--------	-----------------	-------------	--------	----------	------------

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatch	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Mainboard SMI2 training error	Current	Critical	1000009B

6.55.2 hwMainboardSMI2TainingErrorDeassert

The OID of this object is 1.3.6.1.4.1.2011.2.235.1.1.500. 11.17.156.

Object	Bound Variables	Description	Status	Severity	Event Code
hwBoardMismatchDeassert	1: hwTrapSeq 2: hwTrapSensorName 3: hwTrapEvent 4: hwTrapSeverity 5: hwTrapEventCode 6: hwTrapEventData2 7: hwTrapEventData3 8: hwTrapSeverIdentity 9: hwTrapLocation 10: hwTrapTime	Mainboard SMI2 training error deassert	Current	Critical	1000009C

A Acronyms and Abbreviations

B

BMC baseboard management controller

D

DNS domain name system

F

FRU field replaceable unit

G

GUID globally unique identifier

I

IPMI Intelligent Platform Management Interface

L

LDAP Lightweight Directory Access Protocol

M

MIB Management Information Base

N

NTP Network Time Protocol

O**OID** object identifier**P****PCIe** Peripheral Component Interconnect Express**PEF** Platform Event Filter**S****SMTP** Simple Mail Transfer Protocol**SNMP** Simple Network Management Protocol