

Dahua Product Management Information Library

V1.2



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1 Scope

This document is to introduce the database definition of the Dahua network products and SNMP protocol. Via this definition, the device SNMP proxy can provide the management information value. The management station can realize read/write operation of the managed information according to the management information to complete the SNMP data access.

The management information is the data interface of the SNMP for the remote device. The device SNMP proxy can get the value of the management information, and the management station can read/write the management information according to the management information definition to complete the SNMP data access.

The management information includes important properties such as name, ID, type, right, status, description.

The management information has three types: read-only, read/write, write-only. The read-only is for general type information for read only. The write-only is for setup or configuration. Read/write is for both these two features. Since Dahua device UI function is abundant, and some setups are complicated and have no relationship with the network. It is not suitable for the SNMP to set. At the same time, some setups need the device to reboot and it has relationship with other aspects. So, in this management information library, it concerns the setup relating to the network.

This management database design principle is for the user to browse device information and realize some simple setup via the SNMP. For some sophisticated management operation, please set or manage the UI.

2.1 Overview

Please run the SNMP proxy on the device, we can search the device general information, set important parameters and etc via the SNMP manager. At the same time, it can use the TRAP information to realize key malfunction or event upload and etc.

2 DAHUA-SNMP-MIB definition

This chapter defines MIB definition of the same features of Dahua various devices. It describes concerning nodes and defines the related trap information node.

ROOT node OID: 1.3.6.1.4.1.1004849.2。

Rely types: TEXTUAL-CONVENTION, DisplayString, TruthValue, RowStatus, OBJECT-TYPE, NOTIFICATION-TYPE, MODULE-IDENTITY, Integer32, Opaque, enterprises, TimeTicks, IpAddress

Important: To compatible with the ipSAN device to use the mib file, ROOT node OID: 1.3.6.1.4.1.1004849.2, ipSAN device root node OID: 1.3.6.1.4.1.1004849.1.

2.1 systemInfo

The system includes two parts: version information and product information.

System information node description:

Name: systemInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.1

2.1.1 versionInfo

Version information node description:

Name: versionInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.1.1

Name	Data type	R/W	Description	OID
softwareRevision	DisplayString	R	The software version.	versionInfo.1
hardwareRevision	DisplayString	R	The hardware version.	versionInfo.2

2.1.2 productInfo

Product information node description:

Name: productInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.1.2

Name	Data type	R/W	Description	OID
videoChannel	INTEGER	R	The number of video	productInfo.1

			channel.	
alarmInput	INTEGER	R	The number of alarm input.	productInfo.2
alarmOutput	INTEGER	R	The number of alarm output.	productInfo.3
serialNumber	DisplayString	R	The device serial number.	productInfo.4
systemVersion	DisplayString	R	The system Version of device.	productInfo.5
deviceType	DisplayString	R	Device model,	productInfo.6
deviceClass	DisplayString	R	Device class.	productInfo.7
deviceStatus	INTEGER{bad(0), good(1)}	R	Status of device is bad(0) or good(1).	productInfo.8
machineName	DisplayString	R/W	The name of the device.	productInfo.9
location	DisplayString	R/W	The location of the device.	productInfo.10

2.1.3 Other system information

Name	Data type	R/W	Description	OID
cpuUsage	INTEGER (0-100)	R	Usage of the CPU.	systemInfo.3
lastestEvent	DisplayString	R	The type of the lastest event.	systemInfo.4
encodeNo	INTEGER	R	The number of encode channels which are available.	systemInfo.5
deviceUpTime	TimeTicks	R	The time (in hundredths of a second) since the	systemInfo.6

			system was last re-initialized.	
systemStatus	INTEGER{online(0), offline(1), reboot(2)}	R/W	"the system status , you can use setRequest to set the system status."	systemInfo.7
systemTime	DisplayString(SIZE(19))	R/W	currentTime format: YYYY/MM/DD HOUR:MIN:SEC. eg: 2014/10/13 10:32:31"	systemInfo.8

3.1.3.1 memoryInfo

Memory information node description :

Name: memoryInfo
 Type: OBJECT-IDENTIFIER
 OID: 1.3.6.1.4.1.1004849.2.1.9

Name	Data type	R/W	Description	OID
memoryTotal	INTEGER	R	Memory size	memoryInfo.1
memoryUsage	INTEGER	R	Memory usage	memoryInfo.2

3.1.3.2 operatingSystemInfo

Operating system information node description:

Name: operatingSystemInfo
 Type: OBJECT-IDENTIFIER
 OID: 1.3.6.1.4.1.1004849.2.1.10

Name	Data type	R/W	Description	OID
osName	DisplayString	R	OS name	operatingSystemInfo.1
osVersion	DisplayString	R	OS version	operatingSystemInfo.2

2.2 networkInfo

The network information includes: port information and TCP/IP information.

Network information node description:

Name: networkInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.2

2.2.1 networkPort

Port information node description

Name: networkPort

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.2.1

Name	Data type	R/W	Description	OID
tcpPort	INTEGER	R/W	TCP port.	networkPort.1
udpPort	INTEGER	R/W	UDP port.	networkPort.2
httpPort	INTEGER	R/W	HTTP port.	networkPort.3
rtspPort	INTEGER	R/W	RTSP port.	networkPort.4
maxConnectNum	INTEGER	R/W	The number of max connect.	networkPort.5
httpsPort	INTEGER	R/W	HTTPS port.	networkPort.6

2.2.2 tcplpInfo

TCP/IP information node description:

Name: tcplpInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.2.2

Name	Data type	R/W	Description	OID
getIpMode	INTEGER	R/W	The mode of getting IP, value: 0=static, 1=DHCP.	tcplpInfo.1
macAddr	DisplayString	R	The address of MAC.	tcplpInfo.2
ipVersion	INTEGER	R/W	The version of IP, value: 0=IPv4, 1=IPv6.	tcplpInfo.3
subnetMast	DisplayString	R/W	The information of subnet mast.	tcplpInfo.4

defaultGateway	DisplayString	R/W	The information of default gateway.	tcplpInfo.5
preferredDns	DisplayString	R/W	The information of the preferred DNS service address.	tcplpInfo.6
alternateDns	DisplayString	R/W	The information of the alternate DNS service address.	tcplpInfo.7
ipAddr	DisplayString	R/W	The address of IP	tcplpInfo.8

2.3 configInfo

Configuration information node description:

Name: configInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.3

2.3.1 encodeConfig

The encode setup information includes main stream information and sub stream information.

Encode setup information node description:

Name: encodeConfig

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.3.1

3.3.1.1 mainStreamInfo

The main stream information includes three parts: regular bit stream information, motion detect bit stream information, alarm bit stream information.

Main stream information node description:

Name: mainStreamInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.3.1.1

3.3.1.1.1 RegularStreamInfoTable

Regular bit stream information sheet object node description:

Name: regularStreamInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.1.1

Regular bit stream information sheet line object node description:

Name: regularStreamInfoTableEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.1.1.1

Indexes: 1: regularChannelNo

Regular bit stream information sheet line object node description:

Name	Data type	R/W	Description	OID
regularChannelNo	INTEGER	R	Channel No. of regular bit stream type.	RegularStreamInfoTableEntry.1
regularCompression	DisplayString	R/W	Encode mode of regular bit stream. (Refer to the Appendix for encode mode) .	RegularStreamInfoTableEntry.2
regularFPS	INTEGER	R/W	Frame rate of regular bit stream.	RegularStreamInfoTableEntry.3
regularResolution	DisplayString	R/W	Resolution of regular bit stream. (Refer to the Appendix for encode	RegularStreamInfoTableEntry.4

			mode)	
regularBitRate	INTEGER	R/W	Bitrate of regular bit stream.	RegularStreamInfoTableEntry.5

3.3.1.1.2 mdStreamInfoTable

Motion detection (MD) bit stream information sheet object node description:

Name: mdStreamInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.1.2

Motion detection (MD) bit stream information sheet line object node description:

Name: mdStreamInfoTableEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.1.2.1

Indexes: 1: mdChannelNo

Motion detection bit stream information sheet line object node description:

Name	Data type	R/W	Description	OID
mdChannelNo	INTEGER	R	Channel No. of motion detection bit stream type.	mdStreamInfoTableEntry.1
mdCompression	DisplayString	R/W	Encode mode of motion detection bit stream. (Refer to the Appendix for encode mode).	mdStreamInfoTableEntry.2
mdFPS	INTEGER	R/W	Frame rate of motion detection bit stream.	mdStreamInfoTableEntry.3

mdResolution	DisplayString	R/W	Resolution of motion detection bit stream. (Refer to the Appendix for encode mode)	mdStreamInfoTableEntry.4
mdBiteRate	INTEGER	R/W	Bitrate of motion detection bit stream.	mdStreamInfoTableEntry.5

3.3.1.1.3 alarmStreamInfoTable

Alarm bit stream information sheet object node description:

Name: alarmStreamInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.1.3

Alarm bit stream information sheet line object node description:

:

Name: alarmStreamInfoTableEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.1.3.1

Indexes: 1: alarmChannelNo

Alarm bit stream information sheet line object node description:

Name	Data type	R/W	Description	OID
alarmChannelNo	INTEGER	R	Channel No. of alarm bit stream type.	alarmStreamInfoTableEntry.1
alarmCompression	DisplayString	R/W	Encode mode of alarm bit stream. (Refer to the	alarmStreamInfoTableEntry.2

			Appendix for encode mode) .	
alarmFPS	INTEGER	R/W	Frame rate of alarm bit stream.	alarmStreamInfoTableEntry.3
alarmResolution	DisplayString	R/W	Resolution of alarm bit stream. (Refer to the Appendix for encode mode)	alarmStreamInfoTableEntry.4
alarmBitRate	INTEGER	R/W	Bitrate of alarm bit stream.	alarmStreamInfoTableEntry.5

3.3.1.2 extraStreamInfo

The extra stream information includes: extra stream 1 information, extra stream 2 information, extra stream 3 information.

Extra stream information node description:

Name: extraStreamInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.3.1.2

3.3.1.2.1 extra1StreamInfoTable

Extra stream 1 information sheet object node description:

Name: extra1StreamInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.2.1

Extra stream 1 information sheet line object description:

Name: extra1StreamInfoEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.1.2.1.1

Indexes: 1: extra1ChannelNo

Extra stream 1 information column object node description:

Name	Data type	R/W	Description	OID
extra1ChannelNo	INTEGER	R	Channel No. of extra stream 1 type.	extra1StreamInfoEntry.1
extra1Compression	DisplayString	R/W	Encode mode of extra stream 1. (Refer to the Appendix for encode mode) .	extra1StreamInfoEntry.2
extra1FPS	INTEGER	R/W	Frame rate of extra stream 1.	extra1StreamInfoEntry.3
extra1Resolution	DisplayString	R/W	Resolution of extra stream 1. (Refer to the Appendix for encode mode)	extra1StreamInfoEntry.4
extra1BitRate	INTEGER	R/W	Bitrate of extra stream 1.	extra1StreamInfoEntry.5

2.3.2 eventConfig

Event configuration information. It includes video detection configuration information, alarm configuration information, abnormal configuration information.

Event configuration information node description:

Name: eventConfig

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.3.2

3.3.2.1 videoDetectConfig

The video detection configuration information includes motion detection configuration information, video loss configuration information, tampering configuration information.

Video detection configuration node description:

Name: videoDetectConfig

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.3.2.1

3.3.2.1.1 videoMotionInfoTable

Motion detection information sheet object node description:

Name: videoMotionInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.1.1

Motion detection information sheet line object node description:

Name: videoMotionInfoEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.1.1.1

Indexes: 1: videoMotionIndex

Motion detection column object node description:

Name	Data type	R/W	Description	OID
videoMotionIndex	INTEGER	R	The number of video channel, between 1 and the value of recordChannel.	videoMotionInfoEntry.1

3.3.2.1.2 videoLossInfoTable

Video loss information sheet object node description

:

Name: videoLossInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.1.2

Video loss information sheet line object node description

:

Name: videoLossInfoEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.1.2.1

Indexes: 1: videoLossIndex

Video loss information column object node description :

Name	Data type	R/W	Description	OID
videoLossIndex	INTEGER	R	The number of video channel, between 1 and the value of recordChannel.	videoLossInfoEntry.1

3.3.2.1.3 videoBlindInfoTable

Tampering information sheet object node description

Name: videoBlindInfoTable
 Type: OBJECT-TYPE
 OID: 1.3.6.1.4.1.1004849.2.3.2.1.3

Tampering information sheet line object node description

:

Name: videoBlindInfoEntry
 Type: OBJECT-TYPE
 OID: 1.3.6.1.4.1.1004849.2.3.2.1.3.1
 Indexes: 1: videoBlindIndex

Tampering information column object node description :

Name	Data type	R/W	Description	OID
videoBlindIndex	INTEGER	R	The number of video channel, between 1 and the value of recordChannel.	videoBlindInfoEntry.1

3.3.2.2 alarmConfig

Alarm configuration information node description:

Name: alarmConfig
 Type: OBJECT-IDENTIFIER
 OID: 1.3.6.1.4.1.1004849.2.3.2.2

3.3.2.2.1 localAlarmInfoTable

Local alarm information sheet object node description:

Name: localAlarmInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.2.1

Local alarm information sheet line object node description :

Name: localAlarmInfoEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.2.1.1

Indexes: 1: [localAlarmIndex](#)

Local alarm information column object node description :

Name	Data type	R/W	Description	OID
localAlarmIndex	INTEGER	R	The number of alarm-in channel, between 1 and the value of alarmInput.	localAlarmInfoEntry.1

3.3.2.2.2 networkAlarmInfoTable

Network alarm information sheet object node description :

Name: networkAlarmInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.2.2

Network alarm information sheet line object node description :

Name: networkAlarmInfoEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.2.2.2.1

Indexes: 1: [networkAlarmIndex](#)

Network alarm information column object node description:

Name	Data type	R/W	Description	OID
networkAlarmIndex	INTEGER	R	The number of alarm-in channel, between 1 and the value of alarmInput.	networkAlarmInfoEntry.1

3.3.2.3 exceptionConfig

Exceptional configuration information node description:

Name: exceptionConfig
Type: OBJECT-IDENTIFIER
OID: 1.3.6.1.4.1.1004849.2.3.2.3

2.3.3 recordConfig

The record setup includes record plan information and etc.

Record setup information node description:

Name: recordConfig
Type: OBJECT-IDENTIFIER
OID: 1.3.6.1.4.1.1004849.2.3.3

3.3.2.4 recordPlanInfo

The record plan includes main stream record plan and extra stream record plan information

Record plan information node description:

Name: recordPlanInfo
Type: OBJECT-IDENTIFIER
OID: 1.3.6.1.4.1.1004849.2.3.3.1

3.3.2.4.1 recordMainStreamInfoTable

Main stream record information sheet object node description

Name: recordMainStreamInfoTable
Type: OBJECT-TYPE
OID: 1.3.6.1.4.1.1004849.2.3.3.1.1

Main stream record information sheet line object node description

:

Name: recordMainStreamInfoEntry
Type: OBJECT-TYPE
OID: 1.3.6.1.4.1.1004849.2.3.3.1.1.1
Indexes: 1: recordMainChannelIndex

Main stream record information column object node description :

Name	Data type	R/W	Description	OID
recordMainChannelIndex	INTEGER	R	Main bit stream channel index	recordMainStreamInfoEntry.1

3.3.2.4.2 recordExtraStreamInfoTable

Extra stream record information sheet object node description

:

Name: recordExtraStreamInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.3.1.2

Extra stream record information sheet line object node description

:

Name: recordExtraStreamInfoEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.3.3.1.2.1

Indexes: 1: recordExtraChannelIndex

Extra stream record information column object node description:

Name	Data type	R/W	Description	OID
recordExtraChannelIndex	INTEGER	R	Extra bit stream channel index	recordExtraStreamInfoEntry.1

2.4 storageInfo

Storage information node description:

Name: storageInfo

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.4

2.4.1 physicalVolumeInfoTable

HDD information sheet object node description:

Name: physicalVolumeInfoTable

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.4.1

HDD information sheet line object node description :

Name: physicalVolumeInfoEntry

Type: OBJECT-TYPE

OID: 1.3.6.1.4.1.1004849.2.4.1.1

Indexes: 1: physicNo

HDD information column object node description :

Name	Data type	R/W	Description	OID
physicNo	INTEGER	R	Physical No.	physicalVolumeInfoEntry.2
logicNo	INTEGER	R	Logic No.	physicalVolumeInfoEntry.3
physicalVolumeName	DisplayString	R	HDD name	physicalVolumeInfoEntry.4
physicalVolumeStatus	DisplayString	R	HDD status, such as : Error (wrong partition) ; Offline (HDD is offline) ; Running (HDD running status)	physicalVolumeInfoEntry.5
physicalVolumeUsage	INTEGER	R	HDD usage rate(0-100)	PhysicalVolumeInfoEntry.6
physicalVolumeTotal	INTEGER	R	HDD size (GB)	PhysicalVolumeInfoEntry.7

2.5 products

The products include different types such as DVR, NVR, and IPC.

Product node description:

Name: products

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.10

2.5.1 dvr(Digital video recorder)

dvr includes DVR device special information.

DVR node description:

Name: dvr
Type: OBJECT-IDENTIFIER
OID: 1.3.6.1.4.1.1004849.2.10.1

3.5.1.1 videoChannellInfo

Video channel status information node description:

Name: videoChannellInfo
Type: OBJECT-IDENTIFIER
OID: 1.3.6.1.4.1.1004849.2.10.1.1

3.5.1.1.1 videoChannelStatusTable

Video channel status information sheet object node description:

Name: videoChannelStatusTable
Type: OBJECT-TYPE
OID: 1.3.6.1.4.1.1004849.2.10.1.1.1

Video channel status information sheet line object node description :

Name: videoChannelStatusEntry
Type: OBJECT-TYPE
OID: 1.3.6.1.4.1.1004849.2.10.1.1.1.1
Indexes: 1: [videoChannellIndex](#)

Video channel status information column object node description:

Name	Data type	R/W	Description	OID
videoChannellIndex	INTEGER	R	Video channel index	videoChannelStatusEntry.1
videoChannelStatus	INTEGER{online(1),offline(0)}	R	Video channel status	videoChannelStatusEntry.2

2.5.2 nvr (Network video recorder)

nvr includes NVR device special information.

NVR node description:

Name: nvr
Type: OBJECT-IDENTIFIER
OID: 1.3.6.1.4.1.1004849.2.10.2

3.5.1.2 remoteDeviceInfo

Remote device information node description:

Name: remoteDeviceInfo
Type: OBJECT-IDENTIFIER
OID: 1.3.6.1.4.1.1004849.2.10.2.1

Remote device information amount node description:

Name: remoteDeviceNumber
Type: OBJECT-TYPE
OID: 1.3.6.1.4.1.1004849.2.10.2.1.1

Remote device information sheet object node description :

Name: remoteDeviceInfoTable
Type: OBJECT-TYPE
OID: 1.3.6.1.4.1.1004849.2.10.2.1.2

Remote device information sheet line object node description :

Name: remoteDeviceInfoEntry
Type: OBJECT-TYPE
OID: 1.3.6.1.4.1.1004849.2.10.2.1.2.1
Indexes: 1: remoteDeviceIndex

Remote device information column object node description :

Name	Data type	R/ W	Description	OID
remoteDeviceIndex	INTEGER	R	Remote channel amount	remoteDeviceInfoEntry.1
remoteDeviceIpAddr	DisplayString	R	Remote channel IP	remoteDeviceInfoEntry.2
remoteDeviceStatus	DisplayString	R	Remote channel	remoteDeviceInfoEntry.3

			status (Connecting, Conneted, Unconnect, Empty, Disable)	
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2.5.3 ipc (IP camera)

ipc includes IPC device special information.

IPC node description:

Name: ipc

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.10.3

2.6 Trap notification

Notification describes and sends out the information concerning trap.

Trap information node description:

Name: notification

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.11

2.6.1 Basic events

3.6.1.1 snmpStatusEvent

Report when Snmp start/stop

Snmp status event node description:

Name: snmpStatusEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.2

Report information:

Name	Data type	Description	OID
snmpStatus	INTEGER{start(0), stop(1)}	Status of snmp ,start(0) or stop(1).	dahuaSnmpTrap.3

2.6.2 multiMediaEvent

Multiple-media events include event concerning video/audio.

Multiple-media event node description:

Name: multiMediaEvent
 Type: OBJECT-IDENTIFIER
 OID: 1.3.6.1.4.1.1004849.2.11.11

3.6.2.1 videoMotionEvent

Device detects there is a motion detection event.

Motion detection event node description:

Name: videoMotionEvent
 Type: NOTIFICATION-TYPE
 OID: 1.3.6.1.4.1.1004849.2.11.11.1

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting motion starts),stop(detecting motion ends)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
videoMotionIndex	INTEGER	Video channel number	videoMotionInfoEntry.1

3.6.2.2 videoBlindEvent

Device detects there is a tampering event

Tampering event node description:

Name: videoBlindEvent
 Type: NOTIFICATION-TYPE
 OID: 1.3.6.1.4.1.1004849.2.11.11.2

Report information:

Name	Data type	Description	OID
------	-----------	-------------	-----

action	DisplayString	Event action such as start(detecting tampering starts),stop(detecting tampering ends)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
videoBlindIndex	INTEGER	Video channel number	videoBlindInfoEntry.1

3.6.2.3 videoLossEvent

Device detects there is a video loss event

Video loss event node description:

Name: videoLossEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.11.3

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting video loss starts),stop(detecting video loss ends)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
videoLossIndex	INTEGER	Video channel number	videoLossInfoEntry.1

2.6.3 alarmEvent

Alarm event includes local alarm event

Alarm event node description:

Name: alarmEvent

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.11.12

3.6.3.1 localAlarmEvent

Device detects there is a local alarm event

Local alarm event node description:

Name: localAlarmEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.12.1

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detected local alarm starts),stop(detected local alarm ends)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
localAlarmIndex	INTEGER	Video channel number	localAlarmInfoEntry.1

3.6.3.2 netMonitorAbortEvent

Device detects there is an IPC abnormal network event

Name: netMonitorAbortEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.12.2

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detected abnormal network event starts),stop(detected abnormal network event ends)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
remoteDeviceIndex	INTEGER	Remote channel number	remoteDeviceInfoEntry.1
remoteDeviceIpAddr	DisplayString	Remote device IP	remoteDeviceInfoEntry.2

2.6.4 storageEvent

Storage event node description:

Name: storageEvent

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.11.13

3.6.4.1 storageFailureEvent

Device detects there is a HDD error event

HDD malfunction event node description:

Name: storageFailureEvent
 Type: NOTIFICATION-TYPE
 OID: 1.3.6.1.4.1.1004849.2.11.13.1

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting HDD malfunction starts),stop(detecting HDD malfunction ends)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
physicNo	INTEGER	HDD physical SN	physicalVolumeInfoEntry.2

3.6.4.2 storageLowSpaceEvent

Device detects there is a HDD full event

HDD full event node description:

Name: storageLowSpaceEvent
 Type: NOTIFICATION-TYPE
 OID: 1.3.6.1.4.1.1004849.2.11.13.2

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting HDD full starts),stop(detecting HDD full ends)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
physicNo	INTEGER	HDD physical SN. If all physical SN is 0, it means all HDDs are full.	physicalVolumeInfoEntry.2

3.6.4.3 storageInOutEvent

Device detects there is inserting or remove HDD

HDD insert or remove event node description

Name: storageInOutEvent
Type: NOTIFICATION-TYPE
OID: 1.3.6.1.4.1.1004849.2.11.13.3

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting inserting HDD),stop(detecting removing HDD)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
physicNo	INTEGER	HDD physical SN	physicalVolumeInfoEntry.2

3.6.4.4 storageSMARTAbnormityEvent

Device detects there is HDD smart abnormal event

HDD SMART abnormal event node description:

Name: storageSMARTAbnormityEvent
Type: NOTIFICATION-TYPE
OID: 1.3.6.1.4.1.1004849.2.11.13.4

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting HDD smart abnormal event start),stop(detecting HDD smart abnormal event stop)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
logicNo	INTEGER	HDD logic SN	physicalVolumeInfoEntry.3

3.6.4.5 volumeGroupFaultEvent

Device detects there is storage pool abnormal event

Name: volumeGroupFaultEvent
Type: NOTIFICATION-TYPE
OID: 1.3.6.1.4.1.1004849.2.11.13.5

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting storage pool abnormal event start),stop(detecting storage pool abnormal event stop)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2

2.6.5 recordEvent

Record event node description:

Name: recordEvent

Type: OBJECT-IDENTIFIER

OID: 1.3.6.1.4.1.1004849.2.11.14

3.6.5.1 recordMainStreamEvent

Device detects there is main stream recording event

main stream recording event node description:

Name: recordMainStreamEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.14.1

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting main stream recording event start),stop(detecting main stream recording stop)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
recordMainChannelIndex	INTEGER	Main stream channel index	recordMainStreamInfoEntry.1

3.6.5.2 recordExtraStreamEvent

Device detects there is extra stream recording event

Extra stream recording event node description:

Name: recordExtraStreamEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.14.2

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting extra stream recording event start),stop(detecting extra stream recording stop)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
recordExtraChannelIndex	INTEGER	Extra stream channel index	recordExtraStreamInfoEntry.1

2.6.6 evsEvent

3.6.6.1 nasServerStatusEvent

Device detects there is NAS service abnormal event

Name: nasServerStatusEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.15.1

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting NAS service abnormal event start),stop(detecting NAS service abnormal stop)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
serverName	DisplayString	Service name	dahuaSnmpTrap.5

2.6.7 powerEvent

3.6.7.1 powerStatusEvent

Device detects there is power status abnormal event

Name: powerStatusEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.16.1

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as start(detecting power status event start),stop(detecting power status stop)	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2
powertype	DisplayString	Power type	dahuaSnmpTrap.6
powerfault	DisplayString	Status type	dahuaSnmpTrap.7

2.6.8 keepAliveEvent

3.6.8.1 keepAliveEvent

Device send out alive event to the SNMP client.

Name: keepAliveEvent

Type: NOTIFICATION-TYPE

OID: 1.3.6.1.4.1.1004849.2.11.17.1

Report information:

Name	Data type	Description	OID
action	DisplayString	Event action such as pulse	dahuaSnmpTrap.1
currentTime	DisplayString	Trigger time	dahuaSnmpTrap.2

2.7 dahuaSnmpTrap

The corresponding node of the Trap to describe trap information. Can not use *get* to receive node information.

Corresponding node description of the Trap information:

Name: dahuaSnmpTrap
 Type: OBJECT-IDENTIFIER
 OID: 1.3.6.1.4.1.1004849.2.12

Name	Data type	R/W	Description	OID
action	DisplayString		Event action	dahuaSnmpTrap.1
currentTime	DisplayString		Event time format: YYYY/MM/DD week HOUR:MIN:SEC. eg: 2014/10/13 Mon 10:32:31 note:week value may be "Sun","Mon","Tue","Wed","Thu","Fri","Sat"	dahuaSnmpTrap.2
snmpStatus	INTEGER{start(0), stop(1)}		Snmp service status , such as: start, stop	dahuaSnmpTrap.3
physicalVolumeThreshold	INTEGER(0..100)		HDD low threshold	dahuaSnmpTrap.4
serverName	DisplayString		Service name such as : NFS;FTP;SAMB;ISCSI. Use “; ” to separate if there are more than one service.	dahuaSnmpTrap.5

Appendix

1. Device type

Device type value :

Device value	Description
Camera	Analog camera
Dome	Analog PTZ camera
Matrix	Analog matrix
IPC	Network camera
NVS	Network video server
SD	Network PTZ camera
ITSE	Intelligent storage box
ITC	Intelligent camera
DVR	Digital video recorder
HDVR	Hybrid digital video recorder
NVR	Network video recorder
PC-NVR	PC based NVR
NVD	Network video decoder
SNVD	Software network video decoder
UDS	Universal decoder
SVR	Storage video recorder
M	Video general platform
IVS	IVS server
VNCServer	Virtual network server, refers to the computer installed the server encode function. The remote control open source software developed by the AT&T European lab.
VNCClient	Virtual network client, refers to the computer installed the client decode function. The remote control open source software developed by the AT&T European lab.
DSCON	Embedded multiple-screen controller
PC	Personnel computer
EVS	Embedded video recorder
VCS	Video transcode server
A	Alarm host(alarm panel)
SD-HNI	Intelligent PTZ camera

BSC	Access and control host
BSR	Access and control reader
MGateway	Media gateway(Connect to Andriod device)
VTO	Intelligent Video door phone

2. Bit stream resolution

Bit stream resolution values:

Resolution Name	Size in PAL	Size in NTSC
D1	704 x 576	704 x 480
HD1	352 x 576	352 x 480
BCIF	704 x 288	704 x 240
CIF	352 x 288	352 x 240
QCIF	176 x 144	176 x 120
NHD	640 x 360	
VGA	640 x 480	
QVGA	320 x 240	
SVCD	480 x 480	
QQVGA	160 x 128	
SVGA	800 x 592	
SVGA1	800 x 600	
WVGA	800 x 480	
FWVGA	854 x 480	
DVGA	960 x 640	
XVGA	1024 x 768	
WXGA	1280 x 800	
WXGA2	1280 x 768	
WXGA3	1280 x 854	
WXGA4	1366 x 768	
SXGA	1280 x 1024	
SXGA+	1400 x 1050	
WSXGA	1600 x 1024	
UXGA	1600 x 1200	
WUXGA	1920 x 1200	
ND1	240 x 192	
720P	1280 x 720	
1080P	1920 x 1080	
QFHD	3840 x 2160	
1280x960	1280 x 960 (1.3 Mega Pixels)	

1872x1408	1872 x 1408 (2.5 Mega Pixels)	
3744x1408	3744 x 1408 (5 Mega Pixels)	
2048x1536	2048 x 1536 (3 Mega Pixels)	
2432x2048	2432 x 2048 (5 Mega Pixels)	
1216x1024	1216 x 1024 (1.2 Mega Pixels)	
1408x1024	1408 x 1024 (1.5 Mega Pixels)	
3296x2472	3296 x 2472 (8 Mega Pixels)	
2560x1920	2560 x 1920 (5 Mega Pixels)	
960H	960 x 576	960 x 480
DV720P	960 x 720	
2560x1600	2560 x 1600 (4 Mega Pixels)	
2336x1752	2336 x 1752 (4 Mega Pixels)	
2592x2048	2592 x 2048	
2448x2048	2448 x 2048	
1920x1440	1920x1440	
2752x2208	2752x2208	
3840x2160	3840x2160	
4096x2160	4096x2160	
3072x2048	3072x2048	

3. Encode mode

Encode mode includes MPEG4, MPEG2, MPEG1, MJPG, H.263, H.264.