

通过snmp读取6800设备lldp本地的chassis id编码方式(lldpLocChassisIdSubtype) MIB节点含义

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组网及说明

节点介绍，该节点是读取LLDP本地的ChassisID Subtype信息类型

Name: lldpLocChassisIdSubtype

Type: OBJECT-TYPE

OID: 1.0.8802.1.1.2.1.3.1

Full path: iso(1).std(0).iso8802(8802).ieee802dot1(1).ieee802dot1mibs(1).lldpMIB(2).lldpObjects(1).lldpLocalSystemData(3).lldpLocChassisIdSubtype(1)

Module: LLDP-MIB

Parent: lldpLocalSystemData

Next sibling: lldpLocChassisId

Numerical syntax: Integer (32 bit)

Base syntax: INTEGER

Composed syntax: LldpChassisIdSubtype

Status: current

Max access: read-only

Reference: IEEE Std 802.1AB-2005 9.5.2.2

Description: The type of encoding used to identify the chassis associated with the local system.

问题描述

网管通过SNMP读取对应节点的返回值为4
iso.0.8802.1.1.2.1.3.1.0 = **INTEGER: 4**

过程分析

Table 8-2—chassis ID subtype enumeration

ID subtype	ID basis	Reference
0	Reserved	—
1	Chassis component	EntPhysicalAlias when entPhysClass has a value of 'chassis(3)' (IETF RFC 4133)
2	Interface alias	IfAlias (IETF RFC 2863)
3	Port component	EntPhysicalAlias when entPhysicalClass has a value 'port(10)' or 'backplane(4)' (IETF RFC 4133)
4	MAC address	MAC address (IEEE Std 802)
5	Network address	networkAddress ^a
6	Interface name	ifName (IETF RFC 2863)
7	Locally assigned	local ^b
8–255	Reserved	—

^anetworkAddress is an octet string that identifies a particular network address family and an associated network address that are encoded in network octet order. An IP address, for example, would be encoded with the first octet containing the IANA Address Family Numbers enumeration value for the specific address type and octets 2 through *n* containing the address value (for example, the encoding for C0-00-02-0A would indicate the IPv4 address 192.0.2.10).

^blocal is an alpha-numeric string and is locally assigned.

节点是ChassisIdSubtype,用与指示lldpLocChassisId值表示的具体含义。如果lldpLocChassisId值返回的是MAC地址，那么ChassisIdSubtype,的值应为4（MAC Address），如果lldpLocChassisId值返回的是IP地址，那么ChassisIdSubtype,的值应为5（NetworkAddress）。其他ChassisIdSubtype类型参考chassisid subtype enumeration表（上面表格图）。

解决方法

根据读取的类型，在通过lldpLocChassisId节点可以获取对应的含义。