

How to configure MAC Notification via NET-SNMP (DGS-3200)

The related OID located in **swL2MgmtMIB**
swL2DevCtrl & swL2PortCtrlTable

Following is the related OID for DGS-3200 series

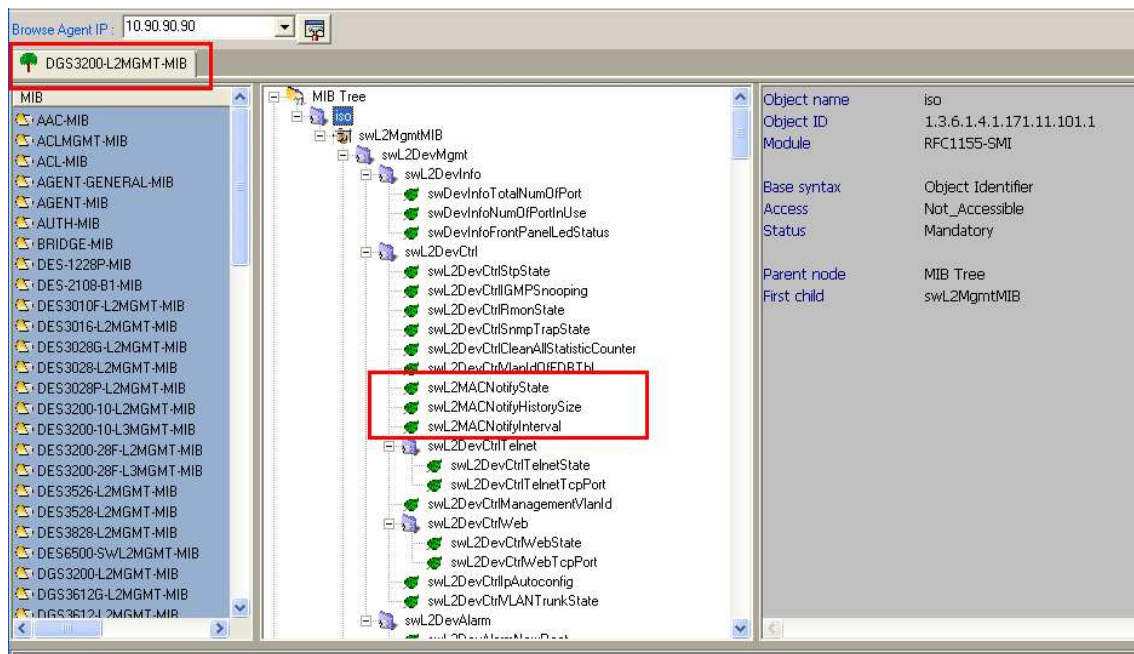
DGS-3200-L2MGMT-MIB

DGS-3200-10 1.3.6.1.4.1.171.11.101.1.2.1.2.8.0

DGS-3200-16 1.3.6.1.4.1.171.11.101.2.2.1.2.8.0

DGS-3200-24 1.3.6.1.4.1.171.11.101.3.2.1.2.8.0

Take DGS-3200-10 for example



swL2MACNotifyState

Enable MAC Notification

```
snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.8.0 i 3
```

Disable MAC Notification

```
snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.8.0 i 2
```

```
C:\>snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.8.0 i 3
SNMPv2-SMI::enterprises.171.11.101.1.2.1.2.8.0 = INTEGER: 3

C:\>snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.8.0 i 2
SNMPv2-SMI::enterprises.171.11.101.1.2.1.2.8.0 = INTEGER: 2
```

Object name	swL2MACNotifvState
Object ID	1.3.6.1.4.1.171.11.101.1.2.1.2.8
Module	DGS3200-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)
Parent node	swL2DevCtrl
First child	None
Description	This object can enable or disable MAC N

swL2MACNotifyHistorySize

Configure Switch MAC Notification History Size

```
snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.9.0 i 30
```

```
C:\>snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.9.0 i 30
SNMPv2-SMI::enterprises.171.11.101.1.2.1.2.9.0 = INTEGER: 30
```

Object name	swL2MACNotifyHistorySize
Object ID	1.3.6.1.4.1.171.11.101.1.2.1.2.9
Module	DGS3200-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..500
Parent node	swL2DevCtrl
First child	None
Description	This object indicates the history size of MAC address The default value is 1 .

swL2MACNotifyInterval

Configure Switch MAC Notification Interval

snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.10.0 i 30

```
C:\>snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.1.2.10.0 i 30
SNMPv2-SMI::enterprises.171.11.101.1.2.1.2.10.0 = INTEGER: 30
```

Object name	swL2MACNotifyInterval
Object ID	1.3.6.1.4.1.171.11.101.1.2.1.2.10
Module	DGS3200-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1:1.2147483647
Parent node	swL2DevCtrl
First child	None
Description	This object indicates the time interval, in seconds, wh MAC notification messages.

Enable Switch MAC Notification on ports

Enable on port 1

```
snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.3.2.1.8.1.100 i 3
```

1.3.6.1.4.1.171.11.101.1.2.3.2.1.8.1.100 → port number

Enable on port 2

```
snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.3.2.1.8.2.100 i 3
```

```
C:\>snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.3.2.1.8.1.100
i 3
SNMPv2-SMI::enterprises.171.11.101.1.2.3.2.1.8.1.100 = INTEGER: 3

C:\>snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.101.1.2.3.2.1.8.2.100
i 3
SNMPv2-SMI::enterprises.171.11.101.1.2.3.2.1.8.2.100 = INTEGER: 3
```

The screenshot displays a network management interface with a tree view on the left and a detailed view on the right. The tree view shows a hierarchy of MIB objects under 'swL2PortMgmt'. The object 'swL2PortCtrlMACNotifyState' is selected and highlighted with a red box. The detailed view on the right provides the following information:

Object name	swL2PortCtrlMACNotifyState
Object ID	1.3.6.1.4.1.171.11.101.1.2.3.2.1.8
Module	DGS3200-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)
Parent node	swL2PortCtrlEntry
First child	None
Description	This object sets each port's MAC notification state.