

## How to configure MAC Notification via NET-SNMP ( DGS-3028/52)

The related OID located in **swL2MgmtMIB**

swL2DevCtrl & swL2PortCtrlTable

Following is the related OID for DES-3028/52 series

1.3.6.1.4.1.171.11.63.6.2	DES-3028
1.3.6.1.4.1.171.11.63.7.2	DES-3028P
1.3.6.1.4.1.171.11.63.8.2	DES-3052
1.3.6.1.4.1.171.11.63.9.2	DES-3052P
1.3.6.1.4.1.171.11.63.11.2	DES-3028G

Take DES-3028G for example

Enable MAC Notification

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.11.2.1.2.19.0 i 3
```

Disable MAC Notification

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.11.2.1.2.19.0 i 2
```

Configure Switch MAC Notification History Size

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.11.2.1.2.20.0 i 100
```

Configure Switch MAC Notification Interval

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.11.2.1.2.21.0 i 60
```

Enable Switch MAC Notification on ports

Enable on port 1

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.11.2.2.2.1.8.1.100 i 3
```

1.3.6.1.4.1.171.11.63.11.2.2.2.1.8.1.100 → port number

<ul style="list-style-type: none"> <li>swL2DevCtrl</li> <li>swL2DevCtrlSystemReboot</li> <li>swL2DevCtrlSystemIP</li> <li>swL2DevCtrlSubnetMask</li> <li>swL2DevCtrlDefaultGateway</li> <li>swL2DevCtrlManagementVlanId</li> <li>swL2DevCtrlIGMPSnooping</li> <li>swL2DevCtrlCleanAllStatisticCounter</li> <li>swL2DevCtrlSnmpEnableAuthenTraps</li> <li>swL2DevCtrlRmonState</li> <li>swL2DevCtrlIpAutoConfig</li> <li><b>swL2MACNotifyState</b></li> <li>swL2MACNotifyHistorySize</li> <li>swL2MACNotifyInterval</li> <li>swL2DevCtrlLLDPState</li> <li>swL2DevCtrlLLDPForwardMessageState</li> <li>swL2DevCtrlAsymVlanState</li> <li>swL2IGMPSnoopingMulticastVlanState</li> <li>swL2DevCtrlVLANTrunkState</li> </ul>	Object name	swL2MACNotifyState
	Object ID	1.3.6.1.4.1.171.11.63.11.2.1.2.19
	Module	DES3028G-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 enabled or disabled MAC Notification.

<ul style="list-style-type: none"> <li>swL2DevCtrl</li> <li>swL2DevCtrlSystemReboot</li> <li>swL2DevCtrlSystemIP</li> <li>swL2DevCtrlSubnetMask</li> <li>swL2DevCtrlDefaultGateway</li> <li>swL2DevCtrlManagementVlanId</li> <li>swL2DevCtrlIGMPSnooping</li> <li>swL2DevCtrlCleanAllStatisticCounter</li> <li>swL2DevCtrlSnmpEnableAuthenTraps</li> <li>swL2DevCtrlRmonState</li> <li>swL2DevCtrlIpAutoConfig</li> <li>swL2MACNotifyState</li> <li><b>swL2MACNotifyHistorySize</b></li> <li>swL2MACNotifyInterval</li> <li>swL2DevCtrlLLDPState</li> <li>swL2DevCtrlLLDPForwardMessageState</li> <li>swL2DevCtrlAsymVlanState</li> <li>swL2IGMPSnoopingMulticastVlanState</li> <li>swL2DevCtrlVLANTrunkState</li> </ul>	Object name	swL2MACNotifyHistorySize
	Object ID	1.3.6.1.4.1.171.11.63.11.2.1.2.20
	Module	DES3028G-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 variation MAC in address table. The default value is 1 .

<ul style="list-style-type: none"> <li>swL2DevCtrl</li> <li>swL2DevCtrlSystemReboot</li> <li>swL2DevCtrlSystemIP</li> <li>swL2DevCtrlSubnetMask</li> <li>swL2DevCtrlDefaultGateway</li> <li>swL2DevCtrlManagementVlanId</li> <li>swL2DevCtrlIGMPSnooping</li> <li>swL2DevCtrlCleanAllStatisticCounter</li> <li>swL2DevCtrlSnmpEnableAuthenTraps</li> <li>swL2DevCtrlRmonState</li> <li>swL2DevCtrlIpAutoConfig</li> <li>swL2MACNotifyState</li> <li>swL2MACNotifyHistorySize</li> <li><b>swL2MACNotifyInterval</b></li> <li>swL2DevCtrlLLDPState</li> <li>swL2DevCtrlLLDPForwardMessageState</li> <li>swL2DevCtrlAsymVlanState</li> <li>swL2IGMPSnoopingMulticastVlanState</li> <li>swL2DevCtrlVLANTrunkState</li> </ul>	Object name	swL2MACNotifyInterval
	Object ID	1.3.6.1.4.1.171.11.63.11.2.1.2.21
	Module	DES3028G-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 second for trigger the MAC notify message.

<ul style="list-style-type: none"> <li>swL2PortCtrlTable</li> <li>swL2PortCtrlEntry</li> <li>swL2PortCtrlPortIndex</li> <li>swL2PortCtrlPortMediumType</li> <li>swL2PortCtrlAdminState</li> <li>swL2PortCtrlInwayState</li> <li>swL2PortCtrlFlowCtrlState</li> <li>swL2PortCtrlDescription</li> <li>swL2PortCtrlAddressLearning</li> <li><b>swL2PortCtrlMACNotifyState</b></li> <li>swL2PortCtrlMulticastFilter</li> <li>swL2PortCtrlMDIXState</li> <li>swL2PortErrTable</li> <li>swL2PortErrEntry</li> <li>swL2PortErrPortIndex</li> <li>swL2PortErrPortState</li> </ul>	Object name	swL2PortCtrlMACNotifyState
	Object ID	1.3.6.1.4.1.171.11.63.11.2.2.2.1.8
	Module	DES3028G-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.