

# Loopback Detection SNMP on DGS-3627G

MIB: DGS3627G-L2MGMT-MIB

## OIDs of Loopback Detection:

1.3.6.1.4.1.171.11.70.8.2.20  
1.3.6.1.4.1.171.11.70.8.2.20.1  
1.3.6.1.4.1.171.11.70.8.2.20.1.1  
1.3.6.1.4.1.171.11.70.8.2.20.1.2  
1.3.6.1.4.1.171.11.70.8.2.20.1.3  
1.3.6.1.4.1.171.11.70.8.2.20.1.4  
1.3.6.1.4.1.171.11.70.8.2.20.1.5  
1.3.6.1.4.1.171.11.70.8.2.20.2  
1.3.6.1.4.1.171.11.70.8.2.20.2.1  
1.3.6.1.4.1.171.11.70.8.2.20.2.1.1  
1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.1  
1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.2  
1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.3  
1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.4

## Command Examples:

```
snmpwalk -v2c -c public 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.20
```

```
Snmpwalk -v2c -c public 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.20.1.2
```

## Snapshots:

1.3.6.1.4.1.171.11.70.8.2.20.1.1

The screenshot shows a tree view of the MIB. The selected node is `swL2LoopDetectAdminState`. The details pane on the right shows the following information:

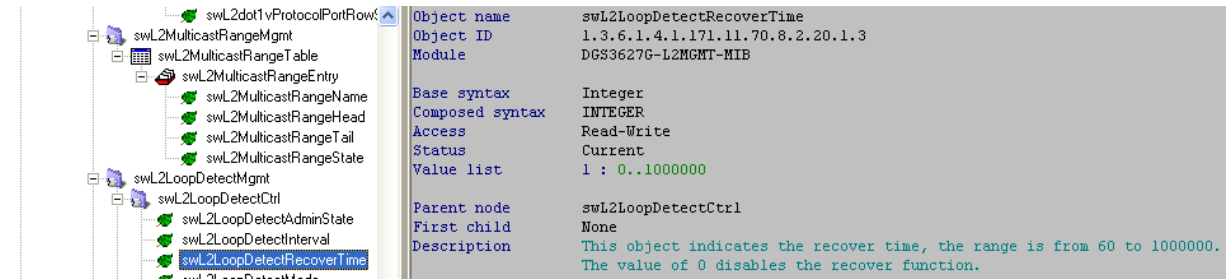
Object name	swL2LoopDetectAdminState
Object ID	1.3.6.1.4.1.171.11.70.8.2.20.1.1
Module	DGS3627G-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swL2LoopDetectCtrl
First child	None
Description	This object indicates the loopback detection status for the system.

1.3.6.1.4.1.171.11.70.8.2.20.1.2

The screenshot shows a tree view of the MIB. The selected node is `swL2LoopDetectInterval`. The details pane on the right shows the following information:

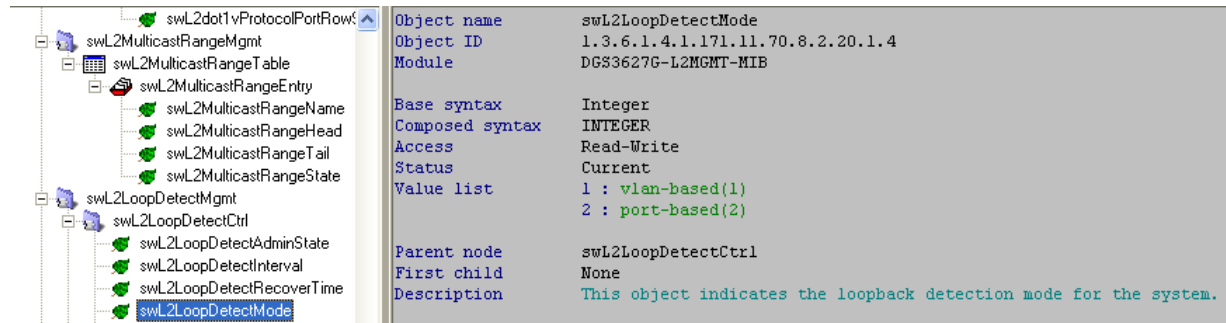
Object name	swL2LoopDetectInterval
Object ID	1.3.6.1.4.1.171.11.70.8.2.20.1.2
Module	DGS3627G-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..32767
Parent node	swL2LoopDetectCtrl
First child	None
Description	This object indicates the interval value, the range is from 1 to 32767 seconds.

1.3.6.1.4.1.171.11.70.8.2.20.1.3



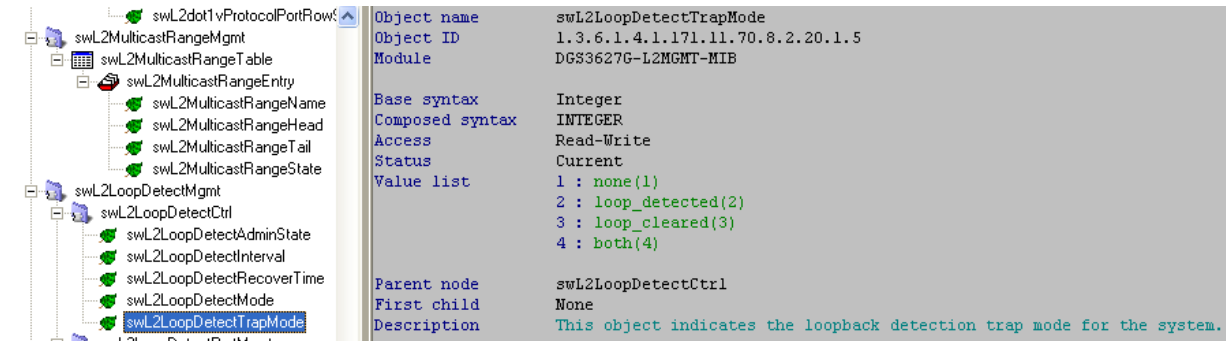
Object name	swL2LoopDetectRecoverTime
Object ID	1.3.6.1.4.1.171.11.70.8.2.20.1.3
Module	DGS3627G-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 0..1000000
Parent node	swL2LoopDetectCtrl
First child	None
Description	This object indicates the recover time, the range is from 60 to 1000000. The value of 0 disables the recover function.

1.3.6.1.4.1.171.11.70.8.2.20.1.4



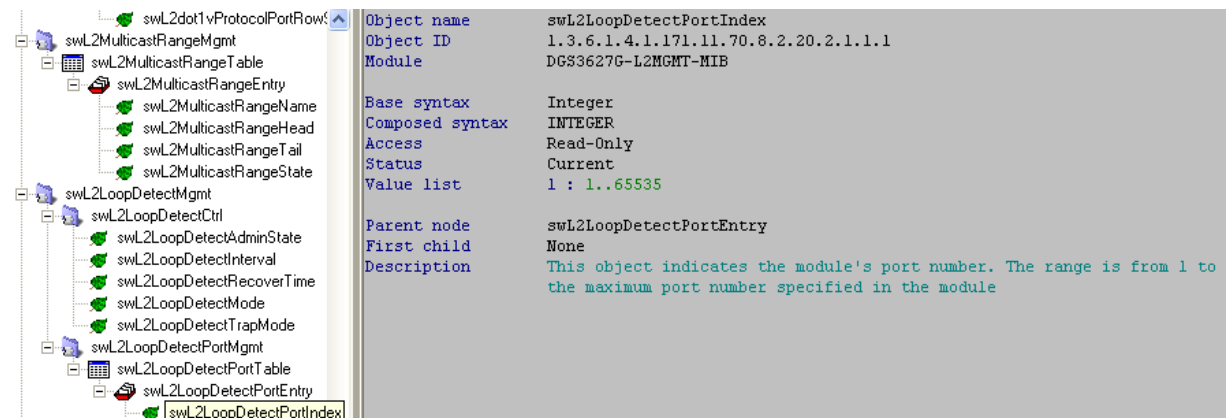
Object name	swL2LoopDetectMode
Object ID	1.3.6.1.4.1.171.11.70.8.2.20.1.4
Module	DGS3627G-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : vlan-based(1) 2 : port-based(2)
Parent node	swL2LoopDetectCtrl
First child	None
Description	This object indicates the loopback detection mode for the system.

1.3.6.1.4.1.171.11.70.8.2.20.1.5



Object name	swL2LoopDetectTrapMode
Object ID	1.3.6.1.4.1.171.11.70.8.2.20.1.5
Module	DGS3627G-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : none(1) 2 : loop_detected(2) 3 : loop_cleared(3) 4 : both(4)
Parent node	swL2LoopDetectCtrl
First child	None
Description	This object indicates the loopback detection trap mode for the system.

1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.1



Object name	swL2LoopDetectPortIndex
Object ID	1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.1
Module	DGS3627G-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 1..65535
Parent node	swL2LoopDetectPortEntry
First child	None
Description	This object indicates the module's port number. The range is from 1 to the maximum port number specified in the module

1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.2

swL2dot1vProtocolPortRow	Object name	swL2LoopDetectPortState
swL2MulticastRangeMgmt	Object ID	1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.2
swL2MulticastRangeTable	Module	DGS3627G-L2MGMT-MIB
swL2MulticastRangeEntry	Base syntax	Integer
swL2MulticastRangeName	Composed syntax	INTEGER
swL2MulticastRangeHead	Access	Read-Write
swL2MulticastRangeTail	Status	Current
swL2MulticastRangeState	Value list	1 : enabled(1) 2 : disabled(2)
swL2LoopDetectMgmt	Parent node	swL2LoopDetectPortEntry
swL2LoopDetectCtrl	First child	None
swL2LoopDetectAdminState	Description	This object indicates the loopback detection function state on the port.
swL2LoopDetectInterval		
swL2LoopDetectRecoverTime		
swL2LoopDetectMode		
swL2LoopDetectTrapMode		
swL2LoopDetectPortMgmt		
swL2LoopDetectPortTable		
swL2LoopDetectPortEntry		
swL2LoopDetectPortInd		
swL2LoopDetectPortSta		

1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.3

swL2dot1vProtocolPortRow	Object name	swL2LoopDetectPortLoopVLAN
swL2MulticastRangeMgmt	Object ID	1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.3
swL2MulticastRangeTable	Module	DGS3627G-L2MGMT-MIB
swL2MulticastRangeEntry	Base syntax	Octet String
swL2MulticastRangeName	Composed syntax	DisplayString
swL2MulticastRangeHead	Access	Read-Only
swL2MulticastRangeTail	Status	Current
swL2MulticastRangeState	Value list	1 : 0..255
swL2LoopDetectMgmt	Parent node	swL2LoopDetectPortEntry
swL2LoopDetectCtrl	First child	None
swL2LoopDetectAdminState	Description	This object indicates the VLAN list that has detected a loopback.
swL2LoopDetectInterval		
swL2LoopDetectRecoverTime		
swL2LoopDetectMode		
swL2LoopDetectTrapMode		
swL2LoopDetectPortMgmt		
swL2LoopDetectPortTable		
swL2LoopDetectPortEntry		
swL2LoopDetectPortInd		
swL2LoopDetectPortSta		
swL2LoopDetectPortLo		

1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.4

swL2dot1vProtocolPortRow!	Object name	swL2LoopDetectPortLoopStatus
l2MulticastRangeMgmt	Object ID	1.3.6.1.4.1.171.11.70.8.2.20.2.1.1.4
l2MulticastRangeTable	Module	DGS3627G-L2MGMT-MIB
swL2MulticastRangeEntry		
swL2MulticastRangeName	Base syntax	Integer
swL2MulticastRangeHead	Composed syntax	INTEGER
swL2MulticastRangeTail	Access	Read-Only
swL2MulticastRangeState	Status	Current
l2LoopDetectMgmt	Value list	1 : normal(1) 2 : loop(2) 3 : error(3) 4 : none(4)
l2LoopDetectCtrl		
swL2LoopDetectAdminState	Parent node	swL2LoopDetectPortEntry
swL2LoopDetectInterval	First child	None
swL2LoopDetectRecoverTime	Description	This object indicates the port status.
swL2LoopDetectMode		
swL2LoopDetectTrapMode		
l2LoopDetectPortMgmt		
swL2LoopDetectPortTable		
swL2LoopDetectPortEntry		
swL2LoopDetectPortIndex		
swL2LoopDetectPortStatus		
swL2LoopDetectPortLocation		
swL2LoopDetectPortLoopStatus		