

How to use Net-snmp to control Loopback Detection on DGS-3200

Enable LBD

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.18.1.1.0 i 1
```

Disable LBD

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.18.1.1.0 i 2
```

Configure Loopback Detection Interval

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.18.1.2.0 i 200
```

Configure Loopback Detection Recover Time

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.18.1.3.0 i 200
```

Show Loopback Detection Port Table

```
snmpwalk -v2c -c public 10.90.90.90 1.3.6.1.4.1.171.11.101.1.2.18.2.1
```

Object name	swL2LoopDetectMgmt
Object ID	1.3.6.1.4.1.171.11.101.1.2.18
Module	DGS3200-I2MGMT-MIB
Base syntax	Object Identifier
Access	Not_Accessible
Status	Mandatory
Parent node	swL2MgmtMIB
First child	swL2LoopDetectCtrl

Object name	swL2LoopDetectCtrl
Object ID	1.3.6.1.4.1.171.11.101.1.2.18.1
Module	DGS3200-I2MGMT-MIB
Base syntax	Object Identifier
Access	Not_Accessible
Status	Mandatory
Parent node	swL2LoopDetectMgmt
First child	swL2LoopDetectAdminState

	Object name	swL2LoopDetectAdminState
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.1.1
	Module	DGS3200-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.	

	Object name	swL2LoopDetectInterval
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.1.2
	Module	DGS3200-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	

	Object name	swL2LoopDetectRecoverTime
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.1.3
	Module	DGS3200-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.	

	Object name	swL2LoopDetectMode
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.1.4
	Module	DGS3200-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.	

	Object name	swL2LoopDetectPortMgmt
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.2
	Module	DGS3200-L2MGMT-MIB
	Base syntax	Object Identifier
	Access	Not_Accessible
Status	Mandatory	
Parent node	swL2LoopDetectMgmt	
First child	swL2LoopDetectPortTable	

	Object name	swL2LoopDetectPortTable
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.2.1
	Module	DGS3200-L2MGMT-MIB
	Base syntax	Sequence Of swL2LoopDetectPortEntry
	Access	Not_Accessible
	Status	Current
	Sequence	1:swL2LoopDetectPortIndex - Integer 2:swL2LoopDetectPortState - Integer 3:swL2LoopDetectPortLoopVLAN - Octet String 4:swL2LoopDetectPortLoopStatus - Integer
	Parent node	swL2LoopDetectPortMgmt
	First child	swL2LoopDetectPortEntry
	Description	The table specifies the loopback detection function specified by port.

	Object name	swL2LoopDetectPortEntry
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.2.1.1
	Module	DGS3200-L2MGMT-MIB
	Base syntax	Sequence
	Access	Not_Accessible
	Status	Current
	Index	1.swL2LoopDetectPortIndex
	Parent node	swL2LoopDetectPortTable
	First child	swL2LoopDetectPortIndex
	Description	The table specifies the loopback detection function specified by port.

	Object name	swL2LoopDetectPortIndex
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.2.1.1.1
	Module	DGS3200-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

	Object name	swL2LoopDetectPortState
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.2.1.1.2
	Module	DGS3200-L2MGMT-MIB
	Base syntax	Integer
	Composed syntax	INTEGER
	Access	Read-Write
	Status	Current
	Value list	1 : enabled(1) 2 : disabled(2)
	Parent node	swL2LoopDetectPortEntry
	First child	None
	Description	This object indicates the loopback detection function state on the port.

	Object name	swL2LoopDetectPortLoopVLAN
	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.2.1.1.3
	Module	DGS3200-L2MGMT-MIB
	Base syntax	Octet String
	Composed syntax	DisplayString
	Access	Read-Only
	Status	Current
	Value list	1 : 0..255
	Parent node	swL2LoopDetectPortEntry
	First child	None
	Description	This object indicates the VLAN list that has detected a loopback.

swL2MulticastFilterModeVlanTable	Object name	swL2LoopDetectPortLoopStatus
swL2MulticastFilterModeVlanEntry	Object ID	1.3.6.1.4.1.171.11.101.1.2.18.2.1.1.4
swL2MulticastFilterVid	Module	DGS3200-L2MGMT-MIB
swL2MulticastFilterVlanMode	Base syntax	Integer
swL2LoopDetectMgmt	Composed syntax	INTEGER
swL2LoopDetectCtrl	Access	Read-Only
swL2LoopDetectAdminState	Status	Current
swL2LoopDetectInterval	Value list	1 : normal(1) 2 : loop(2) 3 : error(3) 4 : none(4)
swL2LoopDetectRecoverTime	Parent node	swL2LoopDetectPortEntry
swL2LoopDetectMode	First child	None
swL2LoopDetectPortMgmt	Description	This object indicates the port status.
swL2LoopDetectPortTable		
swL2LoopDetectPortEntry		
swL2LoopDetectPortIndex		
swL2LoopDetectPortState		
swL2LoopDetectPortLoopVLAN		
swL2LoopDetectPortLoopStatus		