

How to configure Loopback Detection on DES-3200-52 via SNMP?

MIB: [des3200-52-L2mgmt.mib](#)

OIDs:

1.3.6.1.4.1.171.11.113.9.1.2.18.1.1

The screenshot shows a network management tool interface. On the left is a tree view of the MIB hierarchy. The path is: swL2LoopDetectMgmt > swL2LoopDetectCtrl > swL2LoopDetectAdminState. The object is highlighted in blue. On the right is a details pane for this object.

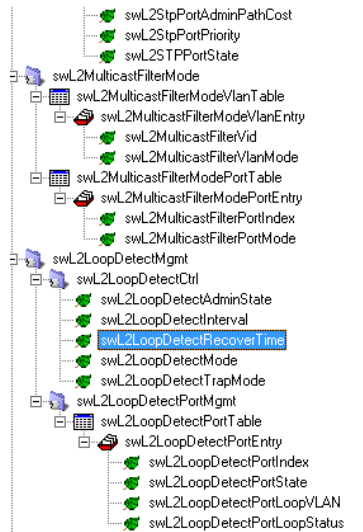
Object name	swL2LoopDetectAdminState
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.1.1
Module	DES3200-52-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swL2LoopDetectCtrl
First child	None
Description	This object indicates the loopback detection status for the system.

1.3.6.1.4.1.171.11.113.1.3.2.21.1.2

The screenshot shows a network management tool interface. On the left is a tree view of the MIB hierarchy. The path is: swL2LoopDetectMgmt > swL2LoopDetectCtrl > swL2LoopDetectInterval. The object is highlighted in blue. On the right is a details pane for this object.

Object name	swL2LoopDetectInterval
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.1.2
Module	DES3200-52-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.

1.3.6.1.4.1.171.11.113.9.1.2.18.1.3

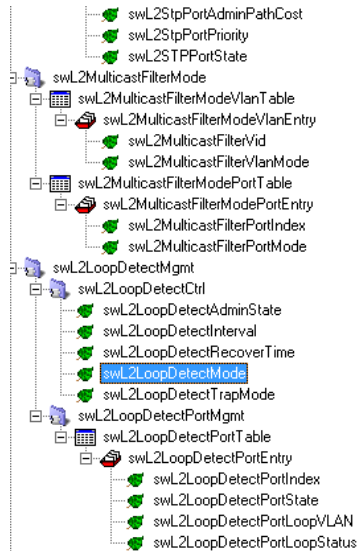


The tree view shows the following structure:

- swL2MulticastFilterMode
 - swL2MulticastFilterModeVlanTable
 - swL2MulticastFilterModeVlanEntry
 - swL2MulticastFilterVid
 - swL2MulticastFilterVlanMode
 - swL2MulticastFilterModePortTable
 - swL2MulticastFilterModePortEntry
 - swL2MulticastFilterPortIndex
 - swL2MulticastFilterPortMode
 - swL2LoopDetectMgmt
 - swL2LoopDetectCtrl
 - swL2LoopDetectAdminState
 - swL2LoopDetectInterval
 - swL2LoopDetectRecoverTime
 - swL2LoopDetectMode
 - swL2LoopDetectTrapMode
 - swL2LoopDetectPortMgmt
 - swL2LoopDetectPortTable
 - swL2LoopDetectPortEntry
 - swL2LoopDetectPortIndex
 - swL2LoopDetectPortState
 - swL2LoopDetectPortLoopVLAN
 - swL2LoopDetectPortLoopStatus

Object name	swL2LoopDetectRecoverTime
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.1.3
Module	DES3200-52-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.

1.3.6.1.4.1.171.11.113.9.1.2.18.1.4



The tree view shows the following structure:

- swL2MulticastFilterMode
 - swL2MulticastFilterModeVlanTable
 - swL2MulticastFilterModeVlanEntry
 - swL2MulticastFilterVid
 - swL2MulticastFilterVlanMode
 - swL2MulticastFilterModePortTable
 - swL2MulticastFilterModePortEntry
 - swL2MulticastFilterPortIndex
 - swL2MulticastFilterPortMode
 - swL2LoopDetectMgmt
 - swL2LoopDetectCtrl
 - swL2LoopDetectAdminState
 - swL2LoopDetectInterval
 - swL2LoopDetectRecoverTime
 - swL2LoopDetectMode
 - swL2LoopDetectTrapMode
 - swL2LoopDetectPortMgmt
 - swL2LoopDetectPortTable
 - swL2LoopDetectPortEntry
 - swL2LoopDetectPortIndex
 - swL2LoopDetectPortState
 - swL2LoopDetectPortLoopVLAN
 - swL2LoopDetectPortLoopStatus

Object name	swL2LoopDetectMode
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.1.4
Module	DES3200-52-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.

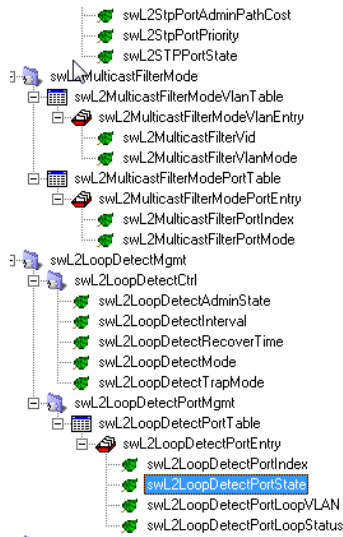
1.3.6.1.4.1.171.11.113.9.1.2.18.1.5

Object name	swL2LoopDetectTrapMode
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.1.5
Module	DES3200-52-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.

1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.1

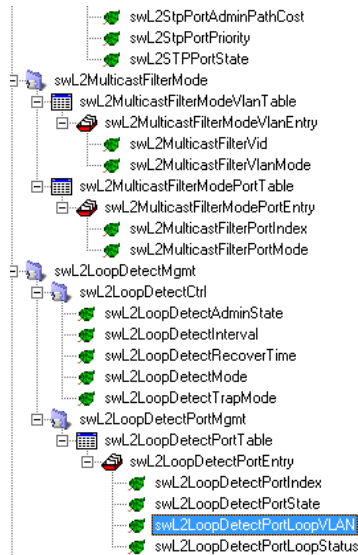
Object name	swL2LoopDetectPortIndex
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.1
Module	DES3200-52-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 1..65535
Parent node	swL2LoopDetectPortEntry
First child	None
Description	This object indicates the module's port number. The range is from 1 to the maximum port number specified in the module

1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.2



Object name	swL2LoopDetectPortState
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.2
Module	DES3200-52-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.

1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.3



Object name	swL2LoopDetectPortLoopVLAN
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.3
Module	DES3200-52-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.

1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.4

The screenshot shows a tree view of MIB objects on the left and a detailed view of the selected object on the right. The tree view includes:

- swL2StpPortAdminPathCost
- swL2StpPortPriority
- swL2STPPortState
- swL2MulticastFilterMode
 - swL2MulticastFilterModeVlanTable
 - swL2MulticastFilterModeVlanEntry
 - swL2MulticastFilterVid
 - swL2MulticastFilterVlanMode
 - swL2MulticastFilterModePortTable
 - swL2MulticastFilterModePortEntry
 - swL2MulticastFilterPortIndex
 - swL2MulticastFilterPortMode
- swL2LoopDetectMgmt
 - swL2LoopDetectCtrl
 - swL2LoopDetectAdminState
 - swL2LoopDetectInterval
 - swL2LoopDetectRecoverTime
 - swL2LoopDetectMode
 - swL2LoopDetectTrapMode
 - swL2LoopDetectPortMgmt
 - swL2LoopDetectPortTable
 - swL2LoopDetectPortEntry
 - swL2LoopDetectPortIndex
 - swL2LoopDetectPortState
 - swL2LoopDetectPortLoopVLAN
 - swL2LoopDetectPortLoopStatus**

Object name	swL2LoopDetectPortLoopStatus
Object ID	1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.4
Module	DES3200-52-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : normal(1) 2 : loop(2) 3 : error(3) 4 : none(4)
Parent node	swL2LoopDetectPortEntry
First child	None
Description	This object indicates the port status.

Example:

enable loopdetect

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.3.2.21.1.1.0 i 1
```

```
C:\Windows\System32>snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.9.1.2.18.1.1.0 i 1  
SNMPv2-SMI::enterprises.171.11.113.9.1.2.18.1.1.0 = INTEGER: 1
```

config loopdetect ports x state enabled , x : port number

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.1.3.2.21.2.1.1.2.x i 1
```

```
C:\Windows\System32>snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.2.1 i 1  
SNMPv2-SMI::enterprises.171.11.113.9.1.2.18.2.1.1.2.1 = INTEGER: 1
```

show port loop ststus , x : port number

```
snmpget -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.4.x
```

```
C:\Windows\System32>snmpget -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.113.9.1.2.18.2.1.1.4.1  
SNMPv2-SMI::enterprises.171.11.113.9.1.2.18.2.1.1.4.1 = INTEGER: 1
```