# How to use NET-SNMP configure Loop back Detection

1. Enable the loop back detection in port mode

```
# snmpset –c private –v 2c 192.168.1.24
1.3.6.1.4.1.171.11.70.3.2.18.1.1.0 i 1
1.3.6.1.4.1.171.11.70.3.2.18.1.4.0 i 2
```
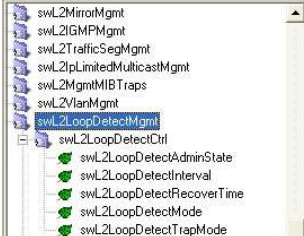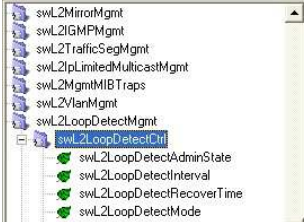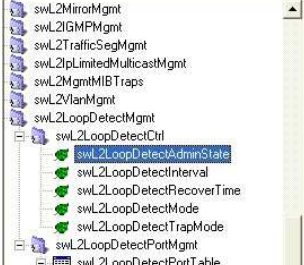
2. Specify port 15 watch the loop back issue.

```
# snmpset –c private –v 2c 192.168.1.24
1.3.6.1.4.1.171.11.70.3.2.18.2.1.1.2.15 i 1
```
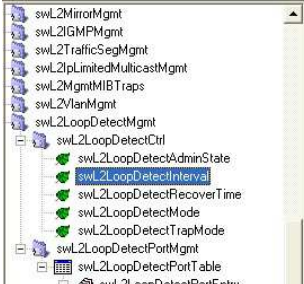
**OID for Loopback detection**

# D-Link Switch: DGS-3450



```
swL2MirrorMgmt
swL2IGMPMgmt
swL2TrafficSegMgmt
swL2IpLimitedMulticastMgmt
swL2MgmtMIBTraps
swL2VlanMgmt
swL2LoopDetectMgmt
  swL2LoopDetectCtrl
    swL2LoopDetectAdminState
    swL2LoopDetectInterval
    swL2LoopDetectRecoverTime
    swL2LoopDetectMode
    swL2LoopDetectTrapMode
  swL2LoopDetectPortMgmt
    swL2LoopDetectPortTable
      swL2LoopDetectPortEntry
        swL2LoopDetectPortIndex
```

```
Object name        swL2LoopDetectRecoverTime
Object ID          1.3.6.1.4.1.171.11.70.3.2.18.1.3
Module             DGS3450-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.
```



```
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swL2VlanMgmt
swL2LoopDetectMgmt
  swL2LoopDetectCtrl
    swL2LoopDetectAdminState
    swL2LoopDetectInterval
    swL2LoopDetectRecoverTime
    swL2LoopDetectMode
    swL2LoopDetectTrapMode
  swL2LoopDetectPortMgmt
    swL2LoopDetectPortTable
      swL2LoopDetectPortEntry
```

```
Object name        swL2LoopDetectMode
Object ID          1.3.6.1.4.1.171.11.70.3.2.18.1.4
Module             DGS3450-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.
```



```
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swL2IpLimitedMulticastMgmt
swL2MgmtMIBTraps
swL2VlanMgmt
swL2LoopDetectMgmt
  swL2LoopDetectCtrl
    swL2LoopDetectAdminState
    swL2LoopDetectInterval
    swL2LoopDetectRecoverTime
    swL2LoopDetectMode
    swL2LoopDetectTrapMode
  swL2LoopDetectPortMgmt
    swL2LoopDetectPortTable
      swL2LoopDetectPortEntry
        swL2LoopDetectPortIndex
```

```
Object name        swL2LoopDetectTrapMode
Object ID          1.3.6.1.4.1.171.11.70.3.2.18.1.5
Module             DGS3450-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.
```



```
swL2MirrorMgmt
swL2IGMPMgmt
swL2TrafficSegMgmt
swL2IpLimitedMulticastMgmt
swL2MgmtMIBTraps
swL2VlanMgmt
swL2LoopDetectMgmt
  swL2LoopDetectCtrl
    swL2LoopDetectAdminState
    swL2LoopDetectInterval
    swL2LoopDetectRecoverTime
    swL2LoopDetectMode
    swL2LoopDetectTrapMode
  swL2LoopDetectPortMgmt
    swL2LoopDetectPortTable
      swL2LoopDetectPortEntry
        swL2LoopDetectPortIndex
        swL2LoopDetectPortState
        swL2LoopDetectPortLoopVLA
        swL2LoopDetectPortLoopStat
```

```
Object name        swL2LoopDetectPortMgmt
Object ID          1.3.6.1.4.1.171.11.70.3.2.18.2
Module             DGS3450-L2MGMT-MIB

Base syntax        Object Identifier
Access             Not_Accessible
Status             Mandatory

Parent node        swL2LoopDetectMgmt
First child        swL2LoopDetectPortTable
```



```
swL2MirrorMgmt
swL2IGMPMgmt
swL2TrafficSegMgmt
swL2IpLimitedMulticastMgmt
swL2MgmtMIBTraps
swL2VlanMgmt
swL2LoopDetectMgmt
  swL2LoopDetectCtrl
    swL2LoopDetectAdminState
    swL2LoopDetectInterval
    swL2LoopDetectRecoverTime
    swL2LoopDetectMode
    swL2LoopDetectTrapMode
  swL2LoopDetectPortMgmt
    swL2LoopDetectPortTable
      swL2LoopDetectPortEntry
        swL2LoopDetectPortIndex
        swL2LoopDetectPortState
        swL2LoopDetectPortLoopVLA
        swL2LoopDetectPortLoopStat
```

```
Object name        swL2LoopDetectPortTable
Object ID          1.3.6.1.4.1.171.11.70.3.2.18.2.1
Module             DGS3450-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.
```

# D-Link Switch: DGS-3450



```
Object name    swL2LoopDetectPortEntry
Object ID      1.3.6.1.4.1.171.11.70.3.2.18.2.1.1
Module         DGS3450-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      1.3.6.1.4.1.171.11.70.3.2.18.2.1.1.1
Module         DGS3450-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      1.3.6.1.4.1.171.11.70.3.2.18.2.1.1.2
Module         DGS3450-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      1.3.6.1.4.1.171.11.70.3.2.18.2.1.1.3
Module         DGS3450-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.
```

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swL2LoopDetectMgmt
  swL2LoopDetectCtrl
    swL2LoopDetectAdminState
    swL2LoopDetectInterval
    swL2LoopDetectRecoverTime
    swL2LoopDetectMode
    swL2LoopDetectTrapMode
  swL2LoopDetectPortMgmt
    swL2LoopDetectPortTable
      swL2LoopDetectPortEntry
        swL2LoopDetectPortIndex
        swL2LoopDetectPortState
        swL2LoopDetectPortLoopVLA
        swL2LoopDetectPortLoopStat
v1 Traps

| | |
|---|---|
| Object name | swL2LoopDetectPortLoopStatus |
| Object ID | 1.3.6.1.4.1.171.11.70.3.2.18.2.1.1.4 |
| Module | DGS3450-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. |