

D-link Switch: DES-3526 Firmware: R4 MIB File: V4

How to use NET-SNMP – IGMP Management

The Location of IGMP Management OID

The screenshot shows the D-Link MIB Compiler interface. The left pane displays a list of MIB files with columns for MIB name, Root ID, and Import status. The MIB file **DES3526-L2MGMT-MIB** is highlighted, and its Root ID is **1.3.6.1.4.1.171.11.64.1.2**. The right pane shows the expanded tree structure for **swL2IGMPMgmt**, which includes various IGMP management objects such as **swL2IGMPMaxSupportedVlans**, **swL2IGMPMaxIpGroupNumPerVlan**, **swL2IGMPCtrlTable**, **swL2IGMPQueryInfoTable**, **swL2IGMPInfoTable**, **swL2IGMPMulticastVlanTable**, and **swL2IGMPRouterPortTable**.

MIB	Root ID	Import
DES-2108-MIB	1.3.6.1.4.1.171	RFC
DES-2110-MIB	1.3.6.1.4.1.171	RFC
DES3526-L2MGMT-MIB	1.3.6.1.4.1.171.11.64.1.2	SNM
DES3550-L2MGMT-MIB	1.3.6.1.4.1.171.11.64.2.2	SNM
DES3828DC-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.2.2	SNM
DES3828DC-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.2.3	SNM
DES3828-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.1.2	SNM
DES3828-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.1.3	SNM
DES3828P-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.3.2	SNM
DES3828P-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.3.3	SNM
DES3852-L2MGMT-MIB	1.3.6.1.4.1.171.11.69.4.2	SNM
DES3852-L3MGMT-MIB	1.3.6.1.4.1.171.11.69.4.3	SNM
DGS3024-L2MGMT-MIB	1.3.6.1.4.1.171.11.68.1.2	SNM
DGS3024PRIMGMT-MIB	1.3.6.1.4.1.171.10.68	SNM
DGS3426-L2MGMT-MIB	1.3.6.1.4.1.171.11.70.1.2	SNM
DGS3612G-L2MGMT-MIB	1.3.6.1.4.1.171.11.70.9.2	SNM
DGS3627G-L2MGMT-MIB	1.3.6.1.4.1.171.11.70.8.2	SNM
DGS3627-L2MGMT-MIB	1.3.6.1.4.1.171.11.70.6.2	SNM
DGS3650-L2MGMT-MIB	1.3.6.1.4.1.171.11.70.5.2	SNM
DISMAN-PING-MIB	1.3.6.1.2.1.80	SNM
DISMAN-TRACEROUTE-MIB	1.3.6.1.2.1.81	SNM
DLINK-AGENT-MIB	1.3.6.1.4.1.171.12.1	RFC
DLINK-AUTH-MIB	1.3.6.1.4.1.171.12.3	SNM
DLINK-EQUIPMENT-MIB	1.3.6.1.4.1.171.12.11	SNM
DLINK-ID-REC-MIB	1.3.6.1.4.1.171	RFC
Dot1xMGMT-MIB	1.3.6.1.4.1.171.12.30	SNM
Double-VLAN-MIB	1.3.6.1.4.1.171.12.28	SNM
DVMRP-MIB	1.3.6.1.3.62	SNM
DXS3326GSR-SWL2MGMT-MIB	1.3.6.1.4.1.171.11.59.7.2	SNM
DXS3326GSR-SWL3MGMT-MIB	1.3.6.1.4.1.171.11.59.7.3	SNM
DXS3350SR-SWL2MGMT-MIB	1.3.6.1.4.1.171.11.59.8.2	SNM

- swL2IGMPMgmt
 - swL2IGMPMaxSupportedVlans
 - swL2IGMPMaxIpGroupNumPerVlan
 - swL2IGMPCtrlTable
 - swL2IGMPCtrlEntry
 - swL2IGMPCtrlVid
 - swL2IGMPQueryInterval
 - swL2IGMPMaxResponseTime
 - swL2IGMPRobustness
 - swL2IGMPLastMemberQueryInterval
 - swL2IGMPHostTimeout
 - swL2IGMPRouteTimeout
 - swL2IGMPLeaveTimer
 - swL2IGMPQueryState
 - swL2IGMPCurrentState
 - swL2IGMPCtrlState
 - swL2IGMPQueryInfoTable
 - swL2IGMPQueryInfoEntry
 - swL2IGMPInfoVid
 - swL2IGMPInfoQueryCount
 - swL2IGMPInfoTxQueryCount
 - swL2IGMPInfoTable
 - swL2IGMPInfoEntry
 - swL2IGMPVid
 - swL2IGMPGroupIpAddr
 - swL2IGMPMacAddr
 - swL2IGMPPortMap
 - swL2IGMPIpGroupReportCount
 - swL2IGMPMulticastVlanTable
 - swL2IGMPMulticastVlanEntry
 - swL2IGMPMulticastVlanId
 - swL2IGMPMulticastVlanName
 - swL2IGMPMulticastVlanSourcePort
 - swL2IGMPMulticastVlanMemberPort
 - swL2IGMPMulticastVlanRowStatus
 - swL2IGMPRouterPortTable

MIB File: DES3526-L2MGMT-MIB

OID: 1.3.6.1.4.1.171.11.64.1.2.10

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show IGMP Max Supported VLANs

:: Command ::

```
snmpget -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.1.0
```

Object name	swL2IGMPMaxSupportedVlans
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPMgmt
First child	None
Description	Maximum number of Vlans in the layer 2 IGMP control table (swL2IGMPCtrlTable).

Show IGMP Max IP Group Number Per VLAN

:: Command ::

```
snmpget -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.2.0
```

Object name	swL2IGMPMaxIpGroupNumPerVlan
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.2
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPMgmt
First child	None
Description	Maximum number of multicast ip group per Vlan in the layer 2 IGMP information table (swL2IGMPQueryInfoTable).

IGMP Control Table

Object name	swL2IGMPCtrlTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2IGMPCtrlEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2IGMPCtrlVid - Integer 2:swL2IGMPQueryInterval - Integer 3:swL2IGMPMaxResponseTime - Integer 4:swL2IGMPRobustness - Integer 5:swL2IGMPLastMemberQueryInterval - Integer 6:swL2IGMPHostTimeout - Integer 7:swL2IGMPRouteTimeout - Integer 8:swL2IGMPLeaveTimer - Integer 9:swL2IGMPQueryState - Integer 10:swL2IGMPCurrentState - Integer 11:swL2IGMPCtrlState - Integer
Parent node	swL2IGMPMgmt
First child	swL2IGMPCtrlEntry
Description	The table controls the Vlan's IGMP function. Its scale depends on current VLAN state (swL2VlanInfoStatus). If VLAN is disabled mode, there is only one entry in the table, with index 1. If VLAN is in Port-Base or 802.1q mode, the number of entries can be up to 12, with index range from 1 to 12.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Control VID

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.1
```

Object name	swL2IGMPCtrlVid
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPCtrlEntry
First child	None
Description	This object indicates the IGMP control entry's VLAN id. If VLAN is disabled, the Vid is always 0 and cannot be changed by management users. If VLAN is in Port-Base mode, the Vid is arranged from 1 to 12, fixed form. If VLAN is in 802.1q mode, the Vid setting can vary from 1 to 4094 by management user, and the Vid in each entry must be unique in the IGMP Control Table.

Show Layer2 IGMP Query Interval

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.2
```

Object name	swL2IGMPQueryInterval
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..65535
Parent node	swL2IGMPCtrlEntry
First child	None
Description	The frequency at which IGMP Host-Query packets are transmitted on this switch.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Max Response Time

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.3
```

Object name	swL2IGMPMaxResponseTime
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.3
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..25
Parent node	swL2IGMPCtrlEntry
First child	None
Description	The maximum query response time on this switch.

Show Layer2 IGMP Robustness

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.4
```

Object name	swL2IGMPRobustness
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.4
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..255
Parent node	swL2IGMPCtrlEntry
First child	None
Description	The Robustness Variable allows tuning for the expected packet loss on a subnet. If a subnet is expected to be lossy, the Robustness Variable may be increased. IGMP is robust to (Robustness Variable-1) packet losses.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Last Member Query Interval

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.5
```

Object name	swL2IGMPLastMemberQueryInterval
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.5
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..65535
Parent node	swL2IGMPCtrlEntry
First child	None
Description	The Last Member Query Interval is the Max Response Time inserted into Group-Specific Queries sent in response to Leave Group messages, and is also the amount of time between Group-Specific Query messages.

Show Layer2 IGMP Host Timeout

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.6
```

Object name	swL2IGMPHostTimeout
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.6
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..16711450
Parent node	swL2IGMPCtrlEntry
First child	None
Description	The timer value for sending IGMP query packet when none was sent by the host in the LAN. The timer works in per-VLAN basis. Our device will be activated to send the query message if the timer is expired. Please reference RFC2236-1997.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Route Timeout

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.7
```

Object name	swL2IGMPRouteTimeout
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.7
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..16711450
Parent node	swL2IGMPCtrlEntry
First child	None
Description	The Router Timeout is how long a host must wait after hearing a Query before it may send any IGMPv2 messages.

Show Layer2 IGMP Leave Timer

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.8
```

Object name	swL2IGMPLeaveTimer
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.8
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 0..16711450
Parent node	swL2IGMPCtrlEntry
First child	None
Description	When a querier receives a Leave Group message for a group that has group members on the reception interface, it sends Group-Specific Queries every swL2IGMPLeaveTimer to the group being left.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Query State

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.9
```

Object name	swL2IGMPQueryState
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.9
Module	DES3526-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	swL2IGMPCtrlEntry
First child	None
Description	This object decide the IGMP query enabled or disabled.

Show Layer2 IGMP Current State

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.10
```

Object name	swL2IGMPCurrentState
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.10
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : other(1) 2 : querier(2) 3 : non-querier(3)
Parent node	swL2IGMPCtrlEntry
First child	None
Description	This object indicates the current IGMP query state.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Control State

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.11
```

Object name	swL2IGMPCtrlState
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.3.1.11
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disable(2) 3 : enable(3)
Parent node	swL2IGMPCtrlEntry
First child	None
Description	This object indicates the status of this entry. other(1) - this entry is currently in use but the conditions under which it will remain so are different from each of the following values. disable(2) - IGMP function is disabled for this entry. enable(3) - IGMP function is enabled for this entry.

IGMP Query Info Table

Object name	swL2IGMPQueryInfoTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.4
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2IGMPQueryInfoEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2IGMPInfoVid - Integer 2:swL2IGMPInfoQueryCount - Integer 3:swL2IGMPInfoTxQueryCount - Integer
Parent node	swL2IGMPMgmt
First child	swL2IGMPQueryInfoEntry
Description	The table contains the number current IGMP query packets which is captured by this device, as well as the IGMP query packets sent by the device.

Show Layer2 IGMP Info VID

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.4.1.1
```

Object name	swL2IGMPInfoVid
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.4.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPQueryInfoEntry
First child	None
Description	This object indicates the Vid of associated IGMP info table entry. It follows swL2IGMPCtrlVid in the associated entry of IGMP control table (swL2IGMPCtrlTable).

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Info Query Count

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.4.1.2
```

Object name	swL2IGMPInfoQueryCount
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.4.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPQueryInfoEntry
First child	None
Description	This object indicates the number of query packets received since the IGMP function enabled, in per-VLAN basis.

Show Layer2 IGMP Info Tx Query Count

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.4.1.3
```

Object name	swL2IGMPInfoTxQueryCount
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.4.1.3
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPQueryInfoEntry
First child	None
Description	This object indicates the send count of IGMP query messages, in per-VLAN basis. In case of IGMP timer expiration, the switch sends IGMP query packets to related VLAN member ports and increment this object by 1.

IGMP Info Table

Object name	swL2IGMPInfoTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.5
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2IGMPInfoEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2IGMPVid - Integer 2:swL2IGMPGroupIpAddr - IP Address 3:swL2IGMPMacAddr - Octet String 4:swL2IGMPPortMap - Octet String 5:swL2IGMPIpGroupReportCount - Integer
Parent node	swL2IGMPMgmt
First child	swL2IGMPInfoEntry
Description	The table containing current IGMP information which captured by this device, provided that swL2DevCtrlIGMPSnooping and swL2IGMPCtrlState of associated VLAN entry are all enabled. Note that the priority of IGMP table entries is lower than Filtering Table, i.e. if there is a table hash collision between the entries of IGMP Table and Filtering Table inside the switch H/W address table, then Filtering Table entry overwrite the colliding entry of IGMP Table. See swL2FilterMgmt description also.

Show Layer2 IGMP PVID

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.5.1.1
```

Object name	swL2IGMPVid
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.5.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPInfoEntry
First child	None
Description	This object indicates the Vid of individual IGMP table entry. It shows the Vid of IGMP report information captured on network.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Group IP Address

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.5.1.2
```

Object name	swL2IGMPGroupIpAddr
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.5.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Only
Status	Current
Parent node	swL2IGMPInfoEntry
First child	None
Description	This object is identify group ip address which is captured from IGMP packet, in per-Vlan basis.

Show Layer2 IGMP Group Mac Address

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.5.1.3
```

Object name	swL2IGMPMacAddr
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.5.1.3
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	MacAddress
Access	Read-Only
Status	Current
Value list	1 : 6..6
Parent node	swL2IGMPInfoEntry
First child	None
Description	This object is identify mac address which is corresponding to swL2IGMPGroupIpAddr, in per-Vlan basis.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Port Map

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.5.1.4
```

Object name	swL2IGMPPortMap
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.5.1.4
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Only
Status	Current
Value list	1 : 0..127
Parent node	swL2IGMPInfoEntry
First child	None
Description	This object indicates which ports are belong to the same multicast group, in per-Vlan basis. Each multicast group has a octet string to indicate with port map. The most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Thus, each port of the switch is represented by a single bit within the value of this object. If that bit has a value of '1' then that port is included in the set of ports; the port is not included if its bit has a value of '0'(Note that the setting of the bit corresponding to the port from which a frame is received is irrelevant). The 4 octets is represent one unit port according its logic port. If the unit less 32 port, the other port don't care just fill zero.

Show Layer2 IGMP Report Count

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.5.1.5
```

Object name	swL2IGMPIpGroupReportCount
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.5.1.5
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 0..65535
Parent node	swL2IGMPInfoEntry
First child	None
Description	This object indicate how much report packet was receive by our device corresponding with this entry from IGMP function enabled, in per-Vlan basis.

Layer 2 IGMP Multicast Table

Object name	swL2IGMPMulticastVlanTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.6
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2IGMPMulticastVlanEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2IGMPMulticastVlanid - Integer 2:swL2IGMPMulticastVlanName - Octet String 3:swL2IGMPMulticastVlanSourcePort - Octet String 4:swL2IGMPMulticastVlanMemberPort - Octet String 5:swL2IGMPMulticastVlanRowStatus - Integer
Parent node	swL2IGMPMgmt
First child	swL2IGMPMulticastVlanEntry
Description	The information of the IGMP snooping multicast vlan table.

Show Layer2 IGMP Multicast VlanID

:: Command ::

snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.6.1.1

Object name	swL2IGMPMulticastVlanid
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.6.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 2..4094
Parent node	swL2IGMPMulticastVlanEntry
First child	None
Description	This object indicates the vlan id of the IGMP snooping multicast vlan entry.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Multicast VLAN Name

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.6.1.2
```

Object name	swL2IGMPMulticastVlanName
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.6.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	SnmpAdminString
Access	Read-Create
Status	Current
Value list	1 : 0..32
Parent node	swL2IGMPMulticastVlanEntry
First child	None
Description	This object indicates the vlan name of the IGMP snooping multicast vlan entry.

Show Layer2 IGMP Multicast VLAN Source Port

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.6.1.3
```

Object name	swL2IGMPMulticastVlanSourcePort
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.6.1.3
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Create
Status	Current
Value list	1 : 0..127
Parent node	swL2IGMPMulticastVlanEntry
First child	None
Description	This object indicate the portlist of the source ports of IGMP snooping multicast vlan. The source ports will be set as tag ports of the vlan entry. And the IGMP control messages received from the member ports would be forwarded to the source ports.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Multicast VLAN Member Port

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.6.1.4
```

Object name	swL2IGMPMulticastVlanMemberPort
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.6.1.4
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Create
Status	Current
Value list	1 : 0..127
Parent node	swL2IGMPMulticastVlanEntry
First child	None
Description	This object indicate the portlist of the member ports of IGMP snooping multicast vlan. The source ports will be set as untag ports of the vlan entry. And the IGMP control messages received from the member ports would be forwarded to the source ports.

Show Layer2 IGMP Multicast VLAN Row Status

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.6.1.5
```

Object name	swL2IGMPMulticastVlanRowStatus
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.6.1.5
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	RowStatus
Access	Read-Create
Status	Current
Value list	1 : active(1) 2 : notInService(2) 3 : notReady(3) 4 : createAndGo(4) 5 : createAndWait(5) 6 : destroy(6)
Parent node	swL2IGMPMulticastVlanEntry
First child	None
Description	This object indicates the status of this entry.

D-link Switch: DES-3526 Firmware: R4 MIB File: V4

Layer 2 IGMP Router Port Table

Object name	swL2IGMPRouterPortTable
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.7
Module	DES3526-L2MGMT-MIB
Base syntax	Sequence Of swL2IGMPRouterPortEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2IGMPRouterPortVlanid - Integer 2:swL2IGMPRouterPortVlanName - Octet String 3:swL2IGMPRouterPortStaticPortList - Octet String 4:swL2IGMPRouterPortDynamicPortList - Octet String 5:swL2IGMPRouterPortForbiddenPortList - Octet String
Parent node	swL2IGMPMgmt
First child	swL2IGMPRouterPortEntry
Description	The information of the router port table.

Show Layer2 IGMP Router Port VLAN ID

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.7.1.1
```

Object name	swL2IGMPRouterPortVlanid
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.7.1.1
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : 1..4094
Parent node	swL2IGMPRouterPortEntry
First child	None
Description	This object indicates the vlan id of the router port entry.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Router Port VLAN Name

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.7.1.2
```

Object name	swL2IGMPRouterPortVlanName
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.7.1.2
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	SnmpAdminString
Access	Read-Only
Status	Current
Value list	1 : 0..32
Parent node	swL2IGMPRouterPortEntry
First child	None
Description	This object indicates the vlan name of the router port entry.

Show Layer2 IGMP Router Port

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.7.1.3
```

Object name	swL2IGMPRouterPortStaticPortList
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.7.1.3
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Write
Status	Current
Value list	1 : 0..127
Parent node	swL2IGMPRouterPortEntry
First child	None
Description	This object indicate the static portlist of the router port entry.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Show Layer2 IGMP Router Port Dynamic Port List

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.7.1.4
```

Object name	swL2IGMPRouterPortDynamicPortList
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.7.1.4
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Only
Status	Current
Value list	1 : 0..127
Parent node	swL2IGMPRouterPortEntry
First child	None
Description	This object indicate the dynamic portlist of the router port entry.

Show Layer2 IGMP Router Port Dynamic Port Forbidden Port List

:: Command ::

```
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.7.1.5
```

Object name	swL2IGMPRouterPortForbiddenPortList
Object ID	1.3.6.1.4.1.171.11.64.1.2.10.7.1.5
Module	DES3526-L2MGMT-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Write
Status	Current
Value list	1 : 0..127
Parent node	swL2IGMPRouterPortEntry
First child	None
Description	This object indicate the forbidden portlist of the router port entry.

D-link Switch: DES-3526 **Firmware:** R4 **MIB File:** V4

Enable IGMP Snooping

Step 1. Set up Query State to be “Enable”

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.9.1 i 3
```

Step 2. Enable Control State to be “Enable”

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.10.3.1.11.1 i 3
```

Step 3. Enable Global IGMP Snooping Function

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.1.2.2.0 i 3
```

Object name	swL2DevCtrlIGMPSnooping
Object ID	1.3.6.1.4.1.171.11.64.1.2.1.2.2
Module	DES3526-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 indicates layer 2 Internet Group Management Protocol (IGMP) capture function is enabled or disabled.

Step 4. IGMP Snooping multicast filter

```
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.11.64.1.2.4.2.1.8.11 i 3
```

11 → Port Number

3 → forward-unregistered-groups

Object name	swL2PortCtrlMulticastfilter
Object ID	1.3.6.1.4.1.171.11.64.1.2.4.2.1.8
Module	DES3526-L2MGMT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(0) 2 : forward-all-groups(1) 3 : forward-unregistered-groups(2) 4 : filter-unregistered-groups(3)
Parent node	swL2PortCtrlEntry
First child	None
Description	This object decide the multicast packets filtering mode on this port .