Configuring Multicast VLAN via SNMP on DES-3528 Series

MIB for F/W 2.01.B42
The Location of Limited Multicast OID

MIB File: MCAST-VLAN-MIB
OID: 1.3.6.1.4.1.171.12.64.3.1.1

Limited Multicast Table


```
Object name        swISMVlanTable
Object ID          1.3.6.1.4.1.171.12.64.3.1
Module             MCAST-VLAN-MIB

Base syntax        Sequence Of swISMVlanEntry
Access             Not_Accessible
Status             Current
Sequence           1:swISMVlanID - Integer
                   2:swISMVlanName - Octet String
                   3:swISMVlanSourcePort - Octet String
                   4:swISMVlanMemberPort - Octet String
                   5:swISMVlanTagMemberPort - Octet String
                   6:swISMVlanUntagSourcePort - Octet String
                   7:swISMVlanState - Integer
                   8:swISMVlanRepSourceAddrType - Integer
                   9:swISMVlanRepSourceAddr - Octet String
                   10:swISMVlanRemapPriority - Integer
                   11:swISMVlanReplacePriority - Integer
                   12:swISMVlanProfileIDList - Octet String
                   13:swISMVlanRowStatus - Integer

Parent node        swMcastVlanMgmt
First child        swISMVlanEntry
Description        This contains information about the IGMP snooping multicast VLAN table.
```

Show IGMP Multicast VLAN ID
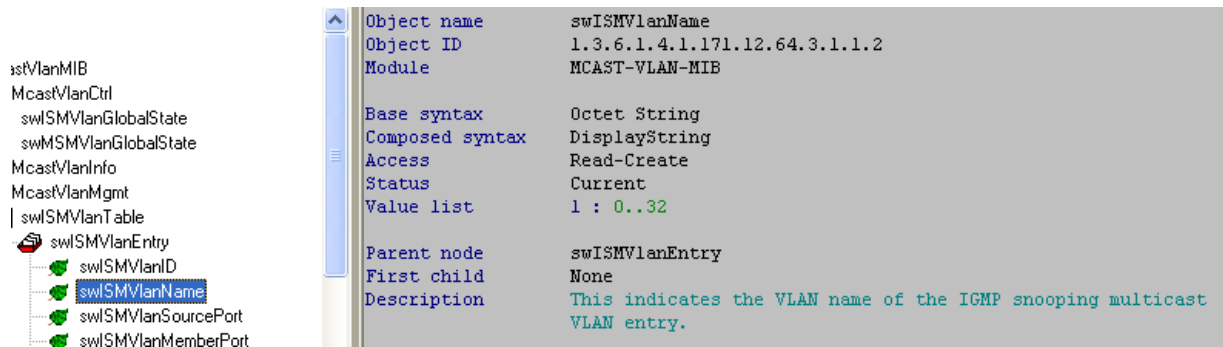## :: Command ::
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.1


```
Object name        swISMVlanID
Object ID          1.3.6.1.4.1.171.12.64.3.1.1.1
Module             MCAST-VLAN-MIB

Base syntax        Integer
Composed syntax    INTEGER
Access             Read-Only
Status             Current
Value list         1 : 2..4094

Parent node        swISMVlanEntry
First child        None
Description        This indicates the VLAN ID of the IGMP snooping multicast
                   VLAN entry.
```

Show IGMP Multicast VLAN Name
:: Command ::
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.2
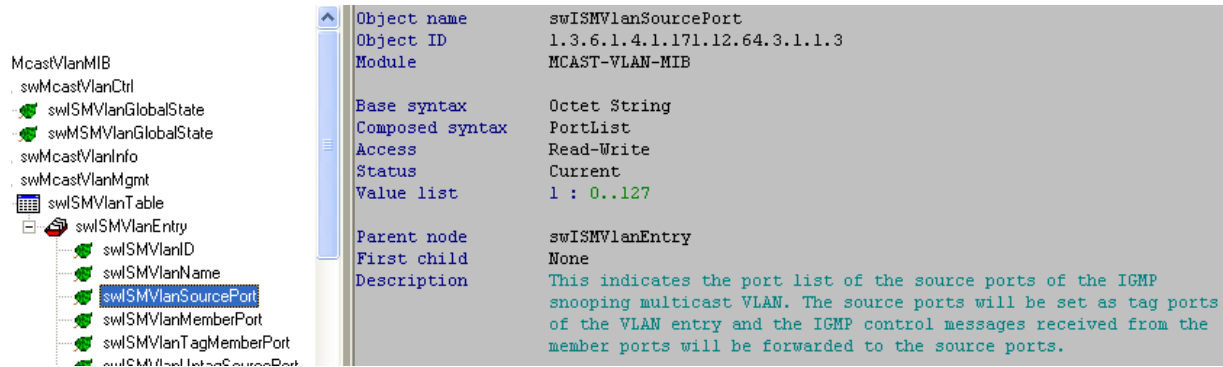

Show IGMP Multicast VLAN Source Port
:: Command ::
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.3

Show IGMP Multicast VLAN Member Port
:: Command ::
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.4

```
Object name        swISMVlanMemberPort
Object ID          1.3.6.1.4.1.171.12.64.3.1.1.4
Module             MCAST-VLAN-MIB

Base syntax        Octet String
Composed syntax    PortList
Access             Read-Write
Status             Current
Value list         1 : 0..127

Parent node        swISMVlanEntry
First child        None
Description        This indicates the port list of the member ports of the IGMP
                   snooping multicast VLAN. The source ports will be set as untagged ports
                   of the VLAN entry and the IGMP control messages received from the
                   member ports will be forwarded to the source ports.
```

Show IGMP Multicast VLAN Row Status
:: Command ::
snmpwalk -v2c -c public 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.13

```
Object name        swISMVlanRowStatus
Object ID          1.3.6.1.4.1.171.12.64.3.1.1.13
Module             MCAST-VLAN-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        swISMVlanEntry
First child        None
Description        This indicates the status of this entry.
```

Show IGMP Multicast VLAN Replace Source IP
:: Command ::
snmpwalk -v2c -c public 1.3.6.1.4.1.171.12.64.3.1.1.9

```
Object name          swISMVlanRepSourceAddr
Object ID            1.3.6.1.4.1.171.12.64.3.1.1.9
Module               MCAST-VLAN-MIB

Base syntax          Octet String
Composed syntax      InetAddress
Access               Read-Write
Status               Current
Value list           1 : 0..255

Parent node          swISMVlanEntry
First child          None
Description          This is the replacement address of this multicast VLAN.
```

```
/lanMIB
:astVlanCtrl
wISMVlanGlobalState
wMSMVlanGlobalState
:astVlanInfo
:astVlanMgmt
wISMVlanTable
swISMVlanEntry
    swISMVlanID
    swISMVlanName
    swISMVlanSourcePort
    swISMVlanMemberPort
    swISMVlanTagMemberPort
    swISMVlanUntagSourcePort
    swISMVlanState
    swISMVlanRepSourceAddrType
    swISMVlanRepSourceAddr
```

Set up Multicast VLAN and Replace IP

SNMP Command
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.2.1000 s test
1.3.6.1.4.1.171.12.64.3.1.1.3.1000 x 000000C0 1.3.6.1.4.1.171.12.64.3.1.1.4.1000 x FFFFFF00
1.3.6.1.4.1.171.12.64.3.1.1.7.1000 i 1 1.3.6.1.4.1.171.12.64.3.1.1.8.1000 i 1
1.3.6.1.4.1.171.12.64.3.1.1.9.1000 s 192.168.0.100 1.3.6.1.4.1.171.12.64.3.1.1.13.1000 i 4

Step 1. Set up the Multicast VLAN Name
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.2.**1000** s **test**

1.3.6.1.4.1.171.12.64.3.1.1.2.1000
1000 ➜ **VLAN ID**
test ➜ **VLAN Name**

Step 2. Set up Multicast VLAN Source Port
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.3.**1000** x **000000C0**
000000C0 ➜ **Source Port 25 & 26**

Step 3. Set up Multicast VLAN Member Port
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.4.**1000** x **FFFFFF00**
FFFFFF00 ➜ **Member Port 1-24**

   FFFFFF00
    | \
1111   1111….
Port 1-4   Port 5-8

Step 4. Create and Go
snmpset -v2c -c private 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.13.**1000** i **4**

Step 5. Set up Replace IP
snmpset -v2c -c private 192.168.0.1 192.168.0.1 1.3.6.1.4.1.171.12.64.3.1.1.9.**1000** s
192.168.0.100