

# How to Add/Delete IGMP Snooping Multicast VLAN Groups via SNMP On DES-3028

- **MIB and OID location:**

- a) **DES3028**-L2MGMT-MIB → swIGMPPackage
  - swL2IGMPMulticastVlanTable (1.3.6.1.4.1.171.11.63.6.2.7.8)
  - swL2IGMPMulticastVlanGroupTable (1.3.6.1.4.1.171.11.63.6.2.7.9)
- b) **DES3028G**-L2MGMT-MIB → swIGMPPackage
  - swL2IGMPMulticastVlanTable (1.3.6.1.4.1.171.11.63.11.2.7.8)
  - swL2IGMPMulticastVlanGroupTable (1.3.6.1.4.1.171.11.63.11.2.7.9)
- c) **DES3028P**-L2MGMT-MIB → swIGMPPackage
  - swL2IGMPMulticastVlanTable (1.3.6.1.4.1.171.11.63.7.2.7.8)
  - swL2IGMPMulticastVlanGroupTable (1.3.6.1.4.1.171.11.63.7.2.7.9)
- d) **DES3052**-L2MGMT-MIB → swIGMPPackage
  - swL2IGMPMulticastVlanTable (1.3.6.1.4.1.171.11.63.8.2.7.8)
  - swL2IGMPMulticastVlanGroupTable (1.3.6.1.4.1.171.11.63.8.2.7.9)
- e) **DES3052P**-L2MGMT-MIB → swIGMPPackage
  - swL2IGMPMulticastVlanTable (1.3.6.1.4.1.171.11.63.9.2.7.8)
  - swL2IGMPMulticastVlanGroupTable (1.3.6.1.4.1.171.11.63.9.2.7.9)

The following example are using **DES-3028G** fw 2.90.B09 for the test

- **Configuration example:**

- ```
1) create igmp_snooping multicast_vlan test 1000
2) config igmp_snooping multicast_vlan_group test add 239.10.10.10-239.11.11.11
3) config igmp_snooping multicast_vlan_group test delete 239.10.10.10-239.11.11.11
```

● **SNMP command example:**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) CLI CMD  | create igmp_snooping multicast_vlan test 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SNMP CMD    | <pre>snmpset -v2c -c private 10.90.90.28 1.3.6.1.4.1.171.11.63.11.2.7.8.1.2.1000 x 74657374 1.3.6.1.4.1.171.11.63.11.2.7.8.1.8.1000 i 4</pre> <p><b>1000 = vlan_id 1000</b><br/> <b>x = Octet String</b><br/> <b>74657374 = change the vlan name "test" into ASCII Hex.</b><br/> <b>4 = action "CreateAndGo",</b></p>                                                                                                                                                                                                                                                                                                  |
| Description | <pre>Object name      swL2IGMPMulticastVlanName Object ID        1.3.6.1.4.1.171.11.63.11.2.7.8.1.2 Module           DES3028G-L2MGMT-MIB  Base syntax      Octet String Composed syntax  DisplayString 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.</pre>                                                                                                                                     |
|             | <pre>Object name      swL2IGMPMulticastVlanRowStatus Object ID        1.3.6.1.4.1.171.11.63.11.2.7.8.1.8 Module           DES3028G-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.</pre> |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|-----------|------------------------------------|--------|---------------------|-------------|---------|-----------------|-----------|--------|-------------|--------|---------|------------|-------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|-------------|------|-------------|-------------------------------------------------|
| 2) CLI CMD      | config igmp_snooping multicast_vlan_group test add 239.10.10.10-239.11.11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| SNMP CMD        | snmpset -v2c -c private 10.90.90.28<br>1.3.6.1.4.1.171.11.63.11.2.7.9.1.4.1000.239.10.10.10.239.11.11.11 i 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
|                 | <b>1000 = vlan_id 1000</b><br><b>239.10.10.10.239.11.11.11 = multicast address list</b><br><b>4 = action "CreateAndGo",</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Description     | <table border="0"> <tr> <td>Object name</td> <td>swL2IGMPMulticastVlanGroupStatus</td> </tr> <tr> <td>Object ID</td> <td>1.3.6.1.4.1.171.11.63.11.2.7.9.1.4</td> </tr> <tr> <td>Module</td> <td>DES3028G-L2MGMT-MIB</td> </tr> <tr> <td>Base syntax</td> <td>Integer</td> </tr> <tr> <td>Composed syntax</td> <td>RowStatus</td> </tr> <tr> <td>Access</td> <td>Read-Create</td> </tr> <tr> <td>Status</td> <td>Current</td> </tr> <tr> <td>Value list</td> <td>1 : active(1)<br/>2 : notInService(2)<br/>3 : notReady(3)<br/>4 : createAndGo(4)<br/>5 : createAndWait(5)<br/>6 : destroy(6)</td> </tr> <tr> <td>Parent node</td> <td>swL2IGMPMulticastVlanGroupEntry</td> </tr> <tr> <td>First child</td> <td>None</td> </tr> <tr> <td>Description</td> <td>This object indicates the status of this entry.</td> </tr> </table> | Object name | swL2IGMPMulticastVlanGroupStatus | Object ID | 1.3.6.1.4.1.171.11.63.11.2.7.9.1.4 | Module | DES3028G-L2MGMT-MIB | Base syntax | Integer | Composed syntax | RowStatus | Access | Read-Create | Status | Current | Value list | 1 : active(1)<br>2 : notInService(2)<br>3 : notReady(3)<br>4 : createAndGo(4)<br>5 : createAndWait(5)<br>6 : destroy(6) | Parent node | swL2IGMPMulticastVlanGroupEntry | First child | None | Description | This object indicates the status of this entry. |
| Object name     | swL2IGMPMulticastVlanGroupStatus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Object ID       | 1.3.6.1.4.1.171.11.63.11.2.7.9.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Module          | DES3028G-L2MGMT-MIB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Base syntax     | Integer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Composed syntax | RowStatus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Access          | Read-Create                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Status          | Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Value list      | 1 : active(1)<br>2 : notInService(2)<br>3 : notReady(3)<br>4 : createAndGo(4)<br>5 : createAndWait(5)<br>6 : destroy(6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Parent node     | swL2IGMPMulticastVlanGroupEntry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| First child     | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Description     | This object indicates the status of this entry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|-----------|------------------------------------|--------|---------------------|-------------|---------|-----------------|-----------|--------|-------------|--------|---------|------------|-------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|-------------|------|-------------|-------------------------------------------------|
| 3) CLI CMD      | config igmp_snooping multicast_vlan_group test del 239.10.10.10-239.11.11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| SNMP CMD        | snmpset -v2c -c private 10.90.90.28<br>1.3.6.1.4.1.171.11.63.11.2.7.9.1.4.1000.239.10.10.10.239.11.11.11 i 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
|                 | <b>1000 = vlan_id 1000</b><br><b>239.10.10.10.239.11.11.11 = multicast address list</b><br><b>6 = action "destroy",</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Description     | <table border="0"> <tr> <td>Object name</td> <td>swL2IGMPMulticastVlanGroupStatus</td> </tr> <tr> <td>Object ID</td> <td>1.3.6.1.4.1.171.11.63.11.2.7.9.1.4</td> </tr> <tr> <td>Module</td> <td>DES3028G-L2MGMT-MIB</td> </tr> <tr> <td>Base syntax</td> <td>Integer</td> </tr> <tr> <td>Composed syntax</td> <td>RowStatus</td> </tr> <tr> <td>Access</td> <td>Read-Create</td> </tr> <tr> <td>Status</td> <td>Current</td> </tr> <tr> <td>Value list</td> <td>1 : active(1)<br/>2 : notInService(2)<br/>3 : notReady(3)<br/>4 : createAndGo(4)<br/>5 : createAndWait(5)<br/>6 : destroy(6)</td> </tr> <tr> <td>Parent node</td> <td>swL2IGMPMulticastVlanGroupEntry</td> </tr> <tr> <td>First child</td> <td>None</td> </tr> <tr> <td>Description</td> <td>This object indicates the status of this entry.</td> </tr> </table> | Object name | swL2IGMPMulticastVlanGroupStatus | Object ID | 1.3.6.1.4.1.171.11.63.11.2.7.9.1.4 | Module | DES3028G-L2MGMT-MIB | Base syntax | Integer | Composed syntax | RowStatus | Access | Read-Create | Status | Current | Value list | 1 : active(1)<br>2 : notInService(2)<br>3 : notReady(3)<br>4 : createAndGo(4)<br>5 : createAndWait(5)<br>6 : destroy(6) | Parent node | swL2IGMPMulticastVlanGroupEntry | First child | None | Description | This object indicates the status of this entry. |
| Object name     | swL2IGMPMulticastVlanGroupStatus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Object ID       | 1.3.6.1.4.1.171.11.63.11.2.7.9.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Module          | DES3028G-L2MGMT-MIB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Base syntax     | Integer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Composed syntax | RowStatus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Access          | Read-Create                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Status          | Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Value list      | 1 : active(1)<br>2 : notInService(2)<br>3 : notReady(3)<br>4 : createAndGo(4)<br>5 : createAndWait(5)<br>6 : destroy(6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Parent node     | swL2IGMPMulticastVlanGroupEntry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| First child     | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |
| Description     | This object indicates the status of this entry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                  |           |                                    |        |                     |             |         |                 |           |        |             |        |         |            |                                                                                                                         |             |                                 |             |      |             |                                                 |