

# How to use SNMP to check the IGMP Snooping state on DGS-3600

## 1. CLI:: #enable igmp\_snooping

### swL2DevCtrlIGMPSnooping

Object name	swL2DevCtrlIGMPSnooping
Object ID	1.3.6.1.4.1.171.11.70.8.2.1.2.2
Module	DGS3627G-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.

DGS-3627G:

```
# snmpwalk -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.1.2.2
```

```
# snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.1.2.2.0 i 3
```

DGS-3612: 1.3.6.1.4.1.171.11.70.10.2.1.2.2

DGS-3612G: 1.3.6.1.4.1.171.11.70.9.2.1.2.2

DGS-3627: 1.3.6.1.4.1.171.11.70.6.2.1.2.2

DGS-3650: 1.3.6.1.4.1.171.11.70.5.2.1.2.2

## 2. CLI:: #enable igmp\_snooping forward\_mcrouter\_only

### swL2DevCtrlIGMPSnoopingMcstRTOOnly

Object name	swL2DevCtrlIGMPSnoopingMcstRTOOnly
Object ID	1.3.6.1.4.1.171.11.70.8.2.1.2.3
Module	DGS3627G-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	

DGS-3627G:

```
# snmpwalk -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.1.2.3
```

```
# snmpset -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.1.2.3.0 i 3
```

DGS-3612: 1.3.6.1.4.1.171.11.70.10.2.1.2.3

DGS-3612G: 1.3.6.1.4.1.171.11.70.9.2.1.2.3

DGS-3627: 1.3.6.1.4.1.171.11.70.6.2.1.2.3

DGS-3650: 1.3.6.1.4.1.171.11.70.5.2.1.2.3

### 3. CLI: # show igmp\_snooping

#### swL2IGMPCtrlTable

Object name	swL2IGMPCtrlTable
Object ID	1.3.6.1.4.1.171.11.70.8.2.11.3
Module	DGS3627G-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 12:swL2IGMPFastLeaveState - Integer 13:swL2IGMPQueryVersion - 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.

DGS-3627G:

```
# snmpwalk -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.11.3
```

DGS-3612: 1.3.6.1.4.1.171.11.70.10.2.11.3

DGS-3612G: 1.3.6.1.4.1.171.11.70.9.2.11.3

DGS-3627: 1.3.6.1.4.1.171.11.70.6.2.11.3

DGS-3650: 1.3.6.1.4.1.171.11.70.5.2.11.3

### 4. CLI: # show igmp\_snooping forwarding

#### IGMP Snooping Forwarding Table:

Object name	swL2IGMPForwardingTable
Object ID	1.3.6.1.4.1.171.11.70.8.2.11.8
Module	DGS3627G-L2MGMT-MIB
Base syntax	Sequence Of swL2IGMPForwardingEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2IGMPForwardingVid - Integer 2:swL2IGMPForwardingGroupAddr - IP Address 3:swL2IGMPForwardingSrcIp - IP Address 4:swL2IGMPForwardingPortMember - Octet String
Parent node	swL2IGMPMgmt
First child	swL2IGMPForwardingEntry
Description	The table containing current IGMP forwarding 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.

DGS-3627G:

```
# snmpwalk -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.11.8.1
```

DGS-3612: 1.3.6.1.4.1.171.11.70.10.2.11.8

DGS-3612G: 1.3.6.1.4.1.171.11.70.9.2.11.8

DGS-3627: 1.3.6.1.4.1.171.11.70.6.2.11.8

DGS-3650: 1.3.6.1.4.1.171.11.70.5.2.11.8

## 5. CLI: #show igmp\_snooping group

### swIGMPSnoopingGroupTable

Object name	swIGMPSnoopingGroupTable
Object ID	1.3.6.1.4.1.171.11.70.8.2.11.11
Module	DGS3627G-L2MGMT-MIB
Base syntax	Sequence Of swIGMPSnoopingGroupEntry
Access	Not_Accessible
Status	Current
Sequence	1:swIGMPSnoopingGroupVid - Integer 2:swIGMPSnoopingGroupGroupAddr - IP Address 3:swIGMPSnoopingGroupSourceAddr - IP Address 4:swIGMPSnoopingGroupIncludePortMap - Octet String 5:swIGMPSnoopingGroupExcludePortMap - Octet String
Parent node	swL2IGMPMgmt
First child	swIGMPSnoopingGroupEntry
Description	The table contains the current IGMP snooping group information captured by the device.

DGS-3627G:

```
# snmpwalk -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.11.11.1
```

DGS-3612: 1.3.6.1.4.1.171.11.70.10.2.11.9

DGS-3612G: 1.3.6.1.4.1.171.11.70.9.2.11.9

DGS-3627: 1.3.6.1.4.1.171.11.70.6.2.11.9

DGS-3650: 1.3.6.1.4.1.171.11.70.5.2.11.11

## 6. CLI: #show igmp\_snooping multicast\_vlan

### swL2IGMPMulticastVlanTable

Object name	swL2IGMPMulticastVlanTable
Object ID	1.3.6.1.4.1.171.11.70.8.2.11.7
Module	DGS3627G-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:swL2IGMPMulticastVlanReplaceSourceIP - IP Address 6:swL2IGMPMulticastVlanRangeName - Octet String 7:swL2IGMPMulticastVlanRangeState - Integer 8:swL2IGMPMulticastVlanState - Integer 9:swL2IGMPMulticastVlanRowStatus - Integer
Parent node	swL2IGMPMgmt
First child	swL2IGMPMulticastVlanEntry
Description	The information of the IGMP snooping multicast vlan table.

DGS-3627G:

```
# snmpwalk -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.11.7
```

DGS-3612: 1.3.6.1.4.1.171.11.70.10.2.11.7

DGS-3612G: 1.3.6.1.4.1.171.11.70.9.2.11.7

DGS-3627: 1.3.6.1.4.1.171.11.70.6.2.11.7

DGS-3650: 1.3.6.1.4.1.171.11.70.5.2.11.7

## 7. CLI:: #show igmp\_snooping multicast\_vlan\_group swL2IGMPMulticastVlanGroupTable

Object name	swL2IGMPMulticastVlanGroupTable
Object ID	1.3.6.1.4.1.171.11.70.8.2.11.9
Module	DGS3627G-L2MGM-T-MIB
Base syntax	Sequence Of swL2IGMPMulticastVlanGroupEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2IGMPMulticastVlanGroupVid - Integer 2:swL2IGMPMulticastVlanGroupRangeName - Octet String 3:swL2IGMPMulticastVlanGroupHead - IP Address 4:swL2IGMPMulticastVlanGroupTail - IP Address
Parent node	swL2IGMPMgmt
First child	swL2IGMPMulticastVlanGroupEntry
Description	The table containing the IGMP snooping multicast VLAN group information

DGS-3627G:

```
# snmpwalk -v2c -c private 192.168.1.1 1.3.6.1.4.1.171.11.70.8.2.11.9
```

DGS-3612: 1.3.6.1.4.1.171.11.70.10.2.11.9

DGS-3612G: 1.3.6.1.4.1.171.11.70.9.2.11.9

DGS-3627: 1.3.6.1.4.1.171.11.70.6.2.11.9

DGS-3650: 1.3.6.1.4.1.171.11.70.5.2.11.9