How to set IGMP snooping with SNMP command

Follow the commands below.
1. enable IGMP snooping globally
```
$ snmpset -c private -v 2c 192.168.1.24
1.3.6.1.4.1.171.11.70.3.2.1.2.2.0 i 3
```

2. enable VLAN 1 IGMP snooping and it's querier with IGMP version 2
```
$ snmpset -c private -v 2c 192.168.1.24
1.3.6.1.4.1.171.11.70.3.2.11.3.1.9.1 i 3
1.3.6.1.4.1.171.11.70.3.2.11.3.1.11.1 i 3
1.3.6.1.4.1.171.11.70.3.2.11.3.1.13.1 i 2
```

Please refer the following the description for IGMP snooping

Panel 1

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv...
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
            swL2IGMPLeaveTimer
            swL2IGMPQueryState
            swL2IGMPCurrentState
```

Object name	swL2IGMPCtrlVid
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.1
Module	DGS3450-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.

Panel 2

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv...
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
```

Object name	swL2IGMPQueryInterval
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.2
Module	DGS3450-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.

Panel 3

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv...
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
```

Object name	swL2IGMPMaxResponseTime
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.3
Module	DGS3450-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.

Panel 4

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv...
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
            swL2IGMPLeaveTimer
```

Object name	swL2IGMPRobustness
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.4
Module	DGS3450-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.

Panel 5

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterval
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
            swL2IGMPLeaveTimer
```

Object name	swL2IGMPLastMemberQueryInterval
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.5
Module	DGS3450-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 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.

swL2IGMPHostTimeout

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv.
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
            swL2IGMPLeaveTimer
```

Object name	swL2IGMPHostTimeout
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.6
Module	DGS3450-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.

swL2IGMPRouteTimeout

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv.
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
            swL2IGMPLeaveTimer
```

Object name	swL2IGMPRouteTimeout
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.7
Module	DGS3450-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.

swL2IGMPLeaveTimer

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv.
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
            swL2IGMPLeaveTimer
            swL2IGMPQueryState
```

Object name	swL2IGMPLeaveTimer
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.8
Module	DGS3450-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	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.

swL2IGMPQueryState

```
swL2PortSecurityMgmt
swL2TrunkMgmt
swL2MirrorMgmt
swL2IGMPMgmt
    swL2IGMPMaxSupportedVlans
    swL2IGMPMaxIpGroupNumPerVlan
    swL2IGMPCtrlTable
        swL2IGMPCtrlEntry
            swL2IGMPCtrlVid
            swL2IGMPQueryInterval
            swL2IGMPMaxResponseTime
            swL2IGMPRobustness
            swL2IGMPLastMemberQueryInterv.
            swL2IGMPHostTimeout
            swL2IGMPRouteTimeout
            swL2IGMPLeaveTimer
            swL2IGMPQueryState
            swL2IGMPCurrentState
```

Object name	swL2IGMPQueryState
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.9
Module	DGS3450-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.

swL2IGMPCurrentState

```
swL2IGMPCtrlTable
    swL2IGMPCtrlEntry
        swL2IGMPCtrlVid
        swL2IGMPQueryInterval
        swL2IGMPMaxResponseTime
        swL2IGMPRobustness
        swL2IGMPLastMemberQueryInterv.
        swL2IGMPHostTimeout
        swL2IGMPRouteTimeout
        swL2IGMPLeaveTimer
        swL2IGMPQueryState
        swL2IGMPCurrentState
        swL2IGMPCtrlState
        swL2IGMPFastLeaveState
        swL2IGMPQueryVersion
        swL2IGMPReportSuppression
```

Object name	swL2IGMPCurrentState
Object ID	1.3.6.1.4.1.171.11.70.3.2.11.3.1.10
Module	DGS3450-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.

```
swL2IGMPCtrlTable
  swL2IGMPCtrlEntry
    swL2IGMPCtrlVid
    swL2IGMPQueryInterval
    swL2IGMPMaxResponseTime
    swL2IGMPRobustness
    swL2IGMPLastMemberQueryInterv...
    swL2IGMPHostTimeout
    swL2IGMPRouteTimeout
    swL2IGMPLeaveTimer
    swL2IGMPQueryState
    swL2IGMPCurrentState
    swL2IGMPCtrlState
    swL2IGMPFastLeaveState
    swL2IGMPQueryVersion
    swL2IGMPReportSuppression
swL2IGMPQueryInfoTable
  swL2IGMPQueryInfoEntry
    swL2IGMPInfoVid
    swL2IGMPInfoQueryCount
```

Object name   swL2IGMPCtrlState
Object ID   1.3.6.1.4.1.171.11.70.3.2.11.3.1.11
Module   DGS3450-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 funtion is disabled for this entry.
                 enable(3) - IGMP funtion is enabled for this entry.

```
swL2IGMPCtrlTable
  swL2IGMPCtrlEntry
    swL2IGMPCtrlVid
    swL2IGMPQueryInterval
    swL2IGMPMaxResponseTime
    swL2IGMPRobustness
    swL2IGMPLastMemberQueryInterv...
    swL2IGMPHostTimeout
    swL2IGMPRouteTimeout
    swL2IGMPLeaveTimer
    swL2IGMPQueryState
    swL2IGMPCurrentState
    swL2IGMPCtrlState
    swL2IGMPFastLeaveState
    swL2IGMPQueryVersion
    swL2IGMPReportSuppression
swL2IGMPQueryInfoTable
  swL2IGMPQueryInfoEntry
    swL2IGMPInfoVid
    swL2IGMPInfoQueryCount
    swL2IGMPInfoTxQueryCount
```

Object name   swL2IGMPFastLeaveState
Object ID   1.3.6.1.4.1.171.11.70.3.2.11.3.1.12
Module   DGS3450-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 fast-leave 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 fast-leave funtion is disabled for this entry.
                 enable(3) - IGMP fast-leave funtion is enabled for this entry.

```
swL2IGMPCtrlTable
  swL2IGMPCtrlEntry
    swL2IGMPCtrlVid
    swL2IGMPQueryInterval
    swL2IGMPMaxResponseTime
    swL2IGMPRobustness
    swL2IGMPLastMemberQueryInterv...
    swL2IGMPHostTimeout
    swL2IGMPRouteTimeout
    swL2IGMPLeaveTimer
    swL2IGMPQueryState
    swL2IGMPCurrentState
    swL2IGMPCtrlState
    swL2IGMPFastLeaveState
    swL2IGMPQueryVersion
    swL2IGMPReportSuppression
```

Object name   swL2IGMPQueryVersion
Object ID   1.3.6.1.4.1.171.11.70.3.2.11.3.1.13
Module   DGS3450-L2MGMT-MIB

Base syntax   Integer
Composed syntax INTEGER
Access   Read-Write
Status   Current
Value list   1 : 1..3

Parent node   swL2IGMPCtrlEntry
First child   None
Description   Configure the IGMP version of query packet which will be sent by the router.

```
swL2IGMPCtrlTable
  swL2IGMPCtrlEntry
    swL2IGMPCtrlVid
    swL2IGMPQueryInterval
    swL2IGMPMaxResponseTime
    swL2IGMPRobustness
    swL2IGMPLastMemberQueryInterv...
    swL2IGMPHostTimeout
    swL2IGMPRouteTimeout
    swL2IGMPLeaveTimer
    swL2IGMPQueryState
    swL2IGMPCurrentState
    swL2IGMPCtrlState
    swL2IGMPFastLeaveState
    swL2IGMPQueryVersion
    swL2IGMPReportSuppression
```

Object name   swL2IGMPReportSuppression
Object ID   1.3.6.1.4.1.171.11.70.3.2.11.3.1.15
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   swL2IGMPCtrlEntry
First child   None
Description   When enabled, multiple IGMP reports or leaves for a specific group (S,G)
                 will be integrated into only one report before being sent to the router
                 port.