

# How to set up the ISM Function on DGS-3200 series via SNMP

(Test firmware: R2.00.B035)

<b>Module:</b>	ISM-VLAN-MIB
<b>Object Name:</b>	swISMVlanMgmt
<b>OID:</b>	1.3.6.1.4.1.171.12.64.3

  

## 1) Create multicast vlan group profile:

CLI command:	create igmp_snooping multicast_vlan_group_profile polly																						
SNMP command:	snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.64.3.2.1.3.5.112.111.108.108.121 i 4																						
	5 = there are five characters of this profile name "polly" 112.111.108.108.121 = the ascii code of Character "polly" to Decimal i 4 = action "create and go"																						
OID Description:	<table border="1"> <tr><td>Object name</td><td>swISMVlanGroupProfName</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.2.1.1</td></tr> <tr><td>Module</td><td>ISM-VLAN-MIB</td></tr> <tr><td>Base syntax</td><td>Octet String</td></tr> <tr><td>Composed syntax</td><td>DisplayString</td></tr> <tr><td>Access</td><td>Read-Only</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Value list</td><td>1 : 0..255</td></tr> <tr><td>Parent node</td><td>swISMVlanGroupProfEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This indicates the name of the IGMP snooping multicast VLAN group profile.</td></tr> </table>	Object name	swISMVlanGroupProfName	Object ID	1.3.6.1.4.1.171.12.64.3.2.1.1	Module	ISM-VLAN-MIB	Base syntax	Octet String	Composed syntax	DisplayString	Access	Read-Only	Status	Current	Value list	1 : 0..255	Parent node	swISMVlanGroupProfEntry	First child	None	Description	This indicates the name of the IGMP snooping multicast VLAN group profile.
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## 2) Add multicast address into the group profile:

CLI command:	config igmp_snooping multicast_vlan_group_profile polly add 239.0.0.1-239.255.255.255																																																																																								
SNMP command:	<pre>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.64.3.3.1.4.5.112.111.108.108.121.1.1.4.239.0.0.1.4.239.255.255.255 i 4</pre> <p><b>5 = there are five characters of this profile name "polly"</b>  <b>112.111.108.108.121 = the ascii code of Character "polly" to Decimal</b>  <b>1 = address type for "ipv4"</b>  <b>4 = there are four character of the start IP address 239.0.0.1/ End IP address 239.255.255.255</b>  <b>239.0.0.1 = swISMVlanGroupProfAddrStart</b>  <b>239.255.255.255 = swISMVlanGroupProfAddrEnd</b>  <b>i 4 = action "create and go"</b></p>																																																																																								
OID Description :	<table border="1" data-bbox="360 808 831 1196"> <tr><td>Object name</td><td>swISMVlanGroupProfAddrType</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.3.1.1</td></tr> <tr><td>Module</td><td>ISM-VLAN-MIB</td></tr> <tr><td>Base syntax</td><td>Integer</td></tr> <tr><td>Composed syntax</td><td>InetAddressType</td></tr> <tr><td>Access</td><td>Read-Only</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Value list</td><td>1 : unknown(0) 2 : ipv4(1) 3 : ipv6(2) 4 : ipv4a(3) 5 : ipv6a(4) 6 : dns(16)</td></tr> <tr><td>Parent node</td><td>swISMVlanGroupProfAddrEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This is the type of multicast address as specified by object 'swISMVlanGroupProfAddrToIp'.</td></tr> </table> <table border="1" data-bbox="860 887 1430 1196"> <tr><td>Object name</td><td>swISMVlanGroupProfAddrStart</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.3.1.2</td></tr> <tr><td>Module</td><td>ISM-VLAN-MIB</td></tr> <tr><td>Base syntax</td><td>Octet String</td></tr> <tr><td>Composed syntax</td><td>InetAddress</td></tr> <tr><td>Access</td><td>Read-Only</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Value list</td><td>1 : 0..255</td></tr> <tr><td>Parent node</td><td>swISMVlanGroupProfAddrEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This specifies the multicast address list for this profile.</td></tr> </table> <table border="1" data-bbox="360 1357 884 1641"> <tr><td>Object name</td><td>swISMVlanGroupProfAddrEnd</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.3.1.3</td></tr> <tr><td>Module</td><td>ISM-VLAN-MIB</td></tr> <tr><td>Base syntax</td><td>Octet String</td></tr> <tr><td>Composed syntax</td><td>InetAddress</td></tr> <tr><td>Access</td><td>Read-Only</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Value list</td><td>1 : 0..255</td></tr> <tr><td>Parent node</td><td>swISMVlanGroupProfAddrEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>The specifies the multicast address list for this profile.</td></tr> </table> <table border="1" data-bbox="903 1229 1358 1641"> <tr><td>Object name</td><td>swISMVlanGroupProfAddrStatus</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.3.1.4</td></tr> <tr><td>Module</td><td>ISM-VLAN-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) 2 : notInService(2) 3 : notReady(3) 4 : createAndGo(4) 5 : createAndWait(5) 6 : destroy(6)</td></tr> <tr><td>Parent node</td><td>swISMVlanGroupProfAddrEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This indicates the status of this entry.</td></tr> </table>	Object name	swISMVlanGroupProfAddrType	Object ID	1.3.6.1.4.1.171.12.64.3.3.1.1	Module	ISM-VLAN-MIB	Base syntax	Integer	Composed syntax	InetAddressType	Access	Read-Only	Status	Current	Value list	1 : unknown(0) 2 : ipv4(1) 3 : ipv6(2) 4 : ipv4a(3) 5 : ipv6a(4) 6 : dns(16)	Parent node	swISMVlanGroupProfAddrEntry	First child	None	Description	This is the type of multicast address as specified by object 'swISMVlanGroupProfAddrToIp'.	Object name	swISMVlanGroupProfAddrStart	Object ID	1.3.6.1.4.1.171.12.64.3.3.1.2	Module	ISM-VLAN-MIB	Base syntax	Octet String	Composed syntax	InetAddress	Access	Read-Only	Status	Current	Value list	1 : 0..255	Parent node	swISMVlanGroupProfAddrEntry	First child	None	Description	This specifies the multicast address list for this profile.	Object name	swISMVlanGroupProfAddrEnd	Object ID	1.3.6.1.4.1.171.12.64.3.3.1.3	Module	ISM-VLAN-MIB	Base syntax	Octet String	Composed syntax	InetAddress	Access	Read-Only	Status	Current	Value list	1 : 0..255	Parent node	swISMVlanGroupProfAddrEntry	First child	None	Description	The specifies the multicast address list for this profile.	Object name	swISMVlanGroupProfAddrStatus	Object ID	1.3.6.1.4.1.171.12.64.3.3.1.4	Module	ISM-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	swISMVlanGroupProfAddrEntry	First child	None	Description	This indicates the status of this entry.
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### 3) Create ISM VLAN:

CLI command:	create igmp_snooping multicast_vlan test 3																																												
SNMP command:	snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.64.3.1.1.2.3 x 74657374 1.3.6.1.4.1.171.12.64.3.1.1.13.3 i 4																																												
	<p><b>3 = VLAN ID</b></p> <p><b>x 74657374 = ISM VLAN name "test", the acsii code from Character "test" to HEX</b></p> <p><b>i 4 = action "create and go"</b></p>																																												
OID Description:	<table border="1"> <tr><td>Object name</td><td>swISMVlanName</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.1.1.2</td></tr> <tr><td>Module</td><td>ISM-VLAN-MIB</td></tr> <tr><td>Base syntax</td><td>Octet String</td></tr> <tr><td>Composed syntax</td><td>DisplayString</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 : 0..32</td></tr> <tr><td>Parent node</td><td>swISMVlanEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This indicates the VLAN name of the IGMP snooping multicast VLAN entry.</td></tr> </table> <table border="1"> <tr><td>Object name</td><td>swISMVlanRowStatus</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.1.1.13</td></tr> <tr><td>Module</td><td>ISM-VLAN-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) 2 : notInService(2) 3 : notReady(3) 4 : createAndGo(4) 5 : createAndWait(5) 6 : destroy(6)</td></tr> <tr><td>Parent node</td><td>swISMVlanEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This indicates the status of this entry.</td></tr> </table>	Object name	swISMVlanName	Object ID	1.3.6.1.4.1.171.12.64.3.1.1.2	Module	ISM-VLAN-MIB	Base syntax	Octet String	Composed syntax	DisplayString	Access	Read-Create	Status	Current	Value list	1 : 0..32	Parent node	swISMVlanEntry	First child	None	Description	This indicates the VLAN name of the IGMP snooping multicast VLAN entry.	Object name	swISMVlanRowStatus	Object ID	1.3.6.1.4.1.171.12.64.3.1.1.13	Module	ISM-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.
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### 4) Delete ISM VLAN

CLI command:	delete igmp_snooping multicast_vlan test 3																						
SNMP command:	snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.64.3.1.1.13.3 i 6																						
	<p><b>3 = VLAN ID</b></p> <p><b>i 6 = action "destory"</b></p>																						
OID Description:	<table border="1"> <tr><td>Object name</td><td>swISMVlanRowStatus</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.12.64.3.1.1.13</td></tr> <tr><td>Module</td><td>ISM-VLAN-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) 2 : notInService(2) 3 : notReady(3) 4 : createAndGo(4) 5 : createAndWait(5) 6 : destroy(6)</td></tr> <tr><td>Parent node</td><td>swISMVlanEntry</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This indicates the status of this entry.</td></tr> </table>	Object name	swISMVlanRowStatus	Object ID	1.3.6.1.4.1.171.12.64.3.1.1.13	Module	ISM-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.
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**5) Add member/ tag member/ source ports, replace source IP, and enable the ISM\_VLAN state:**

<p>CLI command:</p>	<pre>config igmp_snooping multicast_vlan test state enable replace_source_ip 192.168.0.1 config igmp_snooping multicast_vlan test add member_port 2-3 config igmp_snooping multicast_vlan test add tag_member_port 4 config igmp_snooping multicast_vlan test add source_port 1 config igmp_snooping multicast_vlan_group test add profile_name polly</pre>
<p>SNMP command:</p>	<pre>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.64.3.1.1.3.3 x 80000000 1.3.6.1.4.1.171.12.64.3.1.1.4.3 x 60000000 1.3.6.1.4.1.171.12.64.3.1.1.5.3 x 10000000 1.3.6.1.4.1.171.12.64.3.1.1.7.3 i 1 1.3.6.1.4.1.171.12.64.3.1.1.8.3 i 1 1.3.6.1.4.1.171.12.64.3.1.1.9.3 x 3139322e3136382e302e31 1.3.6.1.4.1.171.12.64.3.1.1.12.3 x 31 1.3.6.1.4.1.171.12.64.3.1.1.13.3 i 1</pre> <hr/> <p><b>3 = VLAN ID</b>  <b>x 80000000 = port 1 , x 60000000 = port 2-3 , x 10000000 = port 4</b>      [Each character 0 can turn into binary 0000, which can stand for 4 ports.      For example, character “8” turns into binary is “1000”, which means port 1;      Character “6” turns into binary is “0110”, which means port s 2-3.      Hence, if you want to select ports 10-15, then your octet string value is:007e0000, which binary is 0000000001111110 0000000000000000]  <b>i 1 = state “enabled”</b>  <b>i 1 = address type for “ipv4”</b>  <b>x 3139322e3136382e302e31 = the replace source ip address, the acsii code from Character “192.168.0.1” to HEX</b>  <b>x 31 = the group profile ID (name “polly”), the ascii code from Character “1” to HEX</b>  <b>i 1 = action “active”</b></p> <hr/> <p><b>NOTE: Please notice the command we marked with red double line frame:</b></p> <p>CLI: <u>config igmp_snooping multicast_vlan_group test add profile_name polly</u>      SNMP: <u>1.3.6.1.4.1.171.12.64.3.1.1.12.3 x 31</u></p> <p>5.1) In “<b>swISMVlanEntry</b>”, we only support the OID for Group_profile_ID, we do not support the OID for Group_profile_name (see the following first picture).</p> <p>5.2) Hence, you need to know the Group profile ID for each Group profile name first.</p> <p>5.3) Assume we create 3 group_profiles into switch, you can check it in “<b>swISMVlanGroupProfTable</b>” by following SNMP command (for the attribute-<b>Cc</b>, please refer to the attached txt “<b>Why Should we use -Cc.txt</b>” for the detail) :</p> <pre>snmpwalk -v2c -c private -Cc 10.90.90.90 1.3.6.1.4.1.171.12.64.3.2.1.2</pre> <div data-bbox="375 1818 1120 2004" data-label="Code-Block"> <pre>C:\&gt;snmpwalk -v2c -c private -Cc 10.90.90.90 1.3.6.1.4.1.171.12.64.3.2 SNMPv2-SMI::enterprises.171.12.64.3.2.1.1.5.112.111.108.108.121 = STRING: "polly" SNMPv2-SMI::enterprises.171.12.64.3.2.1.1.5.99.104.101.99.107 = STRING: "check" SNMPv2-SMI::enterprises.171.12.64.3.2.1.1.5.100.108.105.110.107 = STRING: "dlink" SNMPv2-SMI::enterprises.171.12.64.3.2.1.2.5.112.111.108.108.121 = INTEGER: 1 SNMPv2-SMI::enterprises.171.12.64.3.2.1.2.5.99.104.101.99.107 = INTEGER: 2 SNMPv2-SMI::enterprises.171.12.64.3.2.1.2.5.100.108.105.110.107 = INTEGER: 3 SNMPv2-SMI::enterprises.171.12.64.3.2.1.3.5.112.111.108.108.121 = INTEGER: 1 SNMPv2-SMI::enterprises.171.12.64.3.2.1.3.5.99.104.101.99.107 = INTEGER: 1 SNMPv2-SMI::enterprises.171.12.64.3.2.1.3.5.100.108.105.110.107 = INTEGER: 1</pre> </div> <div data-bbox="1136 1877 1332 1993" data-label="Image"> <p>Why Should we use -Cc.txt</p> </div> <p>5.4) Then, you can see the string “polly”s group_profile_ID is 1, and the ascii code from Character “1” to HEX is “31”.</p>



**OID  
Description:**

Object name	swSMVlanSourcePort
Object ID	1.3.6.1.4.1.171.12.64.3.1.1.3
Module	ISM-VLAN-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Write
Status	Current
Value list	1 : 0..127
Parent node	swSMVlanEntry
First child	None
Description	This indicates the port list of the source ports of the 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 will be forwarded to the source ports.

Object name	swSMVlanMemberPort
Object ID	1.3.6.1.4.1.171.12.64.3.1.1.4
Module	ISM-VLAN-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Write
Status	Current
Value list	1 : 0..127
Parent node	swSMVlanEntry
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.

Object name	swSMVlanTagMemberPort
Object ID	1.3.6.1.4.1.171.12.64.3.1.1.5
Module	ISM-VLAN-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Write
Status	Current
Value list	1 : 0..127
Parent node	swSMVlanEntry
First child	None
Description	This indicates the port list of the tag member ports of the IGMP snooping multicast VLAN.

Object name	swISMVlanState
Object ID	1.3.6.1.4.1.171.12.64.3.1.1.7
Module	ISM-VLAN-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swISMVlanEntry
First child	None
Description	This can be used to enable or disable the IGMP snooping multicast VLAN.

Object name	swISMVlanRepSourceAddrType
Object ID	1.3.6.1.4.1.171.12.64.3.1.1.8
Module	ISM-VLAN-MIB
Base syntax	Integer
Composed syntax	InetAddressType
Access	Read-Write
Status	Current
Value list	1 : unknown(0) 2 : ipv4(1) 3 : ipv6(2) 4 : ipv4z(3) 5 : ipv6z(4) 6 : dns(16)
Parent node	swISMVlanEntry
First child	None
Description	This is the type of multicast VLAN replacement address as specified by object 'swISMVlanRepSourceAddr'.

Object name	swISMVlanRepSourceAddr
Object ID	1.3.6.1.4.1.171.12.64.3.1.1.9
Module	ISM-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.

Object name	swISMVlanRowStatus
Object ID	1.3.6.1.4.1.171.12.64.3.1.1.13
Module	ISM-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.

## 6) Enable/Disable global ISM\_VLAN

CLI command:	enable igmp_snooping multicast_vlan
SNMP command:	snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.64.1.1.0 <b>i 1</b> <b>i 1 = action "enabled"</b> <b>(if you type 2, then it means action "disabled")</b>
OID Description:	<pre>Object name      swISMVlanGlobalState Object ID       1.3.6.1.4.1.171.12.64.1.1 Module          ISM-VLAN-MIB  Base syntax      Integer Composed syntax INTEGER Access          Read-Write Status          Current Value list      1 : enabled(1)                 2 : disabled(2)  Parent node      swISMVlanCtrl First child     None Description     This indicates the global state of the IGMP snooping multicast VLAN.</pre>

## 7) config igmp\_snooping multicast\_vlan forward\_unmatched enable

⇒ After confirm with RD, we do not support this MIB/OID so far.