

VLAN Configuration via SNMP on DGS-3627 F/W 2.82

MIB: Q-BRIDGE-MIB.mib

OID:

1.3.6.1.2.1.17.7.1.4.3.1

The screenshot shows a tree view on the left with 'dot1qVlanStaticEntry' selected and circled in red. The right pane displays the following details:

Object name	dot1qVlanStaticEntry
Object ID	1.3.6.1.2.1.17.7.1.4.3.1
Module	Q-BRIDGE-MIB
Base syntax	Sequence
Access	Not_Accessible
Status	Current
Index	1.dot1qVlanIndex
Parent node	dot1qVlanStaticTable
First child	dot1qVlanStaticName
Description	Static information for a VLAN configured into the device by (local or network) management.

1.3.6.1.2.1.17.7.1.4.3.1.1

The screenshot shows a tree view on the left with 'dot1qVlanStaticName' selected and circled in red. The right pane displays the following details:

Object name	dot1qVlanStaticName
Object ID	1.3.6.1.2.1.17.7.1.4.3.1.1
Module	Q-BRIDGE-MIB
Base syntax	Octet String
Composed syntax	SnmpAdminString
Access	Read-Create
Status	Current
Value list	1 : 0..32
Parent node	dot1qVlanStaticEntry
First child	None
Description	An administratively assigned string, which may be used to identify the VLAN.

1.3.6.1.2.1.17.7.1.4.3.1.2

The screenshot shows a tree view on the left with 'dot1qVlanStaticEgressPorts' selected and circled in red. The right pane displays the following details:

Object name	dot1qVlanStaticEgressPorts
Object ID	1.3.6.1.2.1.17.7.1.4.3.1.2
Module	Q-BRIDGE-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Create
Status	Current
Parent node	dot1qVlanStaticEntry
First child	None
Description	The set of ports that are permanently assigned to the egress list for this VLAN by management. Changes to a bit in this object affect the per-port, per-VLAN Registrar control for Registration Fixed for the relevant GVRP state machine on each port. A port may not be added in this set if it is already a member of the set of ports in dot1qVlanForbiddenEgressPorts. The default value of this object is a string of zeros of appropriate length, indicating not fixed.

1.3.6.1.2.1.17.7.1.4.3.1.3

The screenshot shows a tree view on the left with 'dot1qVlanForbiddenEgressPorts' selected. The right pane displays the following details:

Object name	dot1qVlanForbiddenEgressPorts
Object ID	1.3.6.1.2.1.17.7.1.4.3.1.3
Module	Q-BRIDGE-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Create
Status	Current
Parent node	dot1qVlanStaticEntry
First child	None
Description	The set of ports that are prohibited by management from being included in the egress list for this VLAN. Changes to this object that cause a port to be included or excluded affect the per-port, per-VLAN Registrar control for Registration Forbidden for the relevant GVRP state machine on each port. A port may not be added in this set if it is already a member of the set of ports in dot1qVlanStaticEgressPorts. The default value of this object is a string of zeros of appropriate length, excluding all ports from the forbidden set.

1.3.6.1.2.1.17.7.1.4.3.1.4

The screenshot shows a tree view on the left with 'dot1qVlanStaticUntaggedPorts' selected. The right pane displays the following details:

Object name	dot1qVlanStaticUntaggedPorts
Object ID	1.3.6.1.2.1.17.7.1.4.3.1.4
Module	Q-BRIDGE-MIB
Base syntax	Octet String
Composed syntax	PortList
Access	Read-Create
Status	Current
Parent node	dot1qVlanStaticEntry
First child	None
Description	The set of ports that should transmit egress packets for this VLAN as untagged. The default value of this object for the default VLAN (dot1qVlanIndex = 1) is a string of appropriate length including all ports. There is no specified default for other VLANs. If a device agent cannot support the set of ports being set, then it will reject the set operation with an error. For example, a manager might attempt to set more than one VLAN to be untagged on egress where the device does not support this IEEE 802.1Q option.

1.3.6.1.2.1.17.7.1.4.3.1.5

The screenshot shows a tree view on the left with 'dot1qVlanStaticRowStatus' selected. The right pane displays the following details:

Object name	dot1qVlanStaticRowStatus
Object ID	1.3.6.1.2.1.17.7.1.4.3.1.5
Module	Q-BRIDGE-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	dot1qVlanStaticEntry
First child	None
Description	This object indicates the status of this entry.

Example:

Create VLAN 30 with name test2, untagged 1-10, and tagged 25-27

```
snmpset -v2c -c private 192.168.3.250 1.3.6.1.2.1.17.7.1.4.3.1.1.30 s test2 1.3.6.1.2.1.17.7.1.4.3.1.2.30 x  
000000E0000000000 1.3.6.1.2.1.17.7.1.4.3.1.4.30 x FFC0000000000000 1.3.6.1.2.1.17.7.1.4.3.1.5.30 i 4
```

Delete VLAN 30

```
snmpset -v2c -c private 192.168.3.250 1.3.6.1.2.1.17.7.1.4.3.1.5.30 i 6
```

Ports Explanation:

```
1.3.6.1.2.1.17.7.1.4.3.1.2.30 x 000000E000000000
```

Ports	1	5	9	13	17	21	25	29
	0000	0000	0000	0000	0000	0000	1110	0000
	0	0	0	0	0	0	E	0

Ports	33	37	41	45	49	53	57	61
	0000	0000	0000	0000	0000	0000	0000	0000
	0	0	0	0	0	0	0	0