

How to create FDB static entry via NET-SNMP

Please refer to Q-Bridge MIB

dot1qStaticUnicastTable

Example 1

Add entry on port 1 MAC 00-02-03-04-05-07

Command

```
#snmpset -v 2c -c private 10.90.90.90 1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.2.3.4.5.7.0 x  
0x80000000 1.3.6.1.2.1.17.7.1.3.1.1.4.1.0.2.3.4.5.7.0 i 3
```

```
DGS-3200-10:4#show fdb  
Command: show fdb  
  
Unicast MAC Address Aging Time = 300  
  
VID  VLAN Name  MAC Address  Port  Type  
-----  
1    default    00-02-03-04-05-07  1    Permanent  
1    default    00-11-95-C5-D9-E8  10   Dynamic  
1    default    00-1C-F0-97-9C-E2  CPU   Self  
  
Total Entries: 3
```

Description

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.2.3.4.5.7.0 x  
0x80000000
```

```
1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.2.3.4.5.7.0 -----VID  
1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.2.3.4.5.7.0 -----MAC address
```

```
0x80000000 ( add entry on port 1 )  
|80| 00| 00| 00|  
| 10000000 | 00000000 | 00000000 | 00000000 |
```

Delete the entry

```
# snmpset -v 2c -c private 10.90.90.90 1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.2.3.4.5.7.0 x  
0x00400000 1.3.6.1.2.1.17.7.1.3.1.1.4.1.0.2.3.4.5.7.0 i 2
```

Example 2

Add entry on port 10 MAC 00-0C-0D-0E-0F-11

Command

```
#snmpset -v 2c -c private 10.90.90.90 1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.12.13.14.15.17.0 x
0x00400000 1.3.6.1.2.1.17.7.1.3.1.1.4.1.0.12.13.14.15.17.0 i 3
```

```
DGS-3200-10:4#show fdb
Command: show fdb

Unicast MAC Address Aging Time = 300

VID  VLAN Name          MAC Address          Port  Type
-----
1    default              00-0C-0D-0E-0F-11  10   Permanent
1    default              00-11-95-C5-D9-E8  10   Dynamic
1    default              00-1C-F0-97-9C-E2  CPU   Self

Total Entries: 3
```

Description

```
snmpset -v 2c -c private 10.90.90.90 1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.12.13.14.15.17.0 x
0x00400000
```

1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.12.13.14.15.17.0 -----VID

1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.12.13.14.15.17.0 -----MAC address

0.12.13.14.15.17 → 00-0C-0D-0E-0F-11

0x00400000 (add entry on port 10)

|00|40|00|00|

| 00000000 | 01000000 | 00000000 | 00000000 |

Delete the entry

```
#snmpset -v 2c -c private 10.90.90.90 1.3.6.1.2.1.17.7.1.3.1.1.3.1.0.12.13.14.15.17.0 x
0x00400000 1.3.6.1.2.1.17.7.1.3.1.1.4.1.0.12.13.14.15.17.0 i 2
```

Related OID

	Object name dot1qStaticUnicastTable Object ID 1.3.6.1.2.1.17.7.1.3.1 Module Q-BRIDGE-MIB
	Base syntax Sequence Of dot1qStaticUnicastEntry Access Not_Accessible Status Mandatory Sequence 1:dot1qStaticUnicastAddress - Octet String 2:dot1qStaticUnicastReceivePort - Integer 3:dot1qStaticUnicastAllowedToGoTo - Octet String 4:dot1qStaticUnicastStatus - Integer
Parent node dot1qStatic First child dot1qStaticUnicastEntry Description A table containing filtering information for Unicast MAC addresses for each Filtering Database, configured into the device by (local or network) management specifying the set of ports to which frames received from specific ports and containing specific unicast destination addresses are allowed to be forwarded. A value of zero in this table as the port number from which frames with a specific destination address are received, is used to specify all ports for which there is no specific entry in this table for that particular destination address. Entries are valid for unicast addresses only.	

	Object name dot1qStaticUnicastEntry Object ID 1.3.6.1.2.1.17.7.1.3.1.1 Module Q-BRIDGE-MIB
	Base syntax Sequence Access Not_Accessible Status Mandatory Index 1.dot1qPdbId 2.dot1qStaticUnicastAddress 3.dot1qStaticUnicastReceivePort
Parent node dot1qStaticUnicastTable First child dot1qStaticUnicastAddress Description Filtering information configured into the device by (local or network) management specifying the set of ports to which frames received from a specific port and containing a specific unicast destination address are allowed to be forwarded.	

	Object name dot1qStaticUnicastAddress Object ID 1.3.6.1.2.1.17.7.1.3.1.1.1 Module Q-BRIDGE-MIB
	Base syntax Octet String Composed syntax MacAddress Access Not_Accessible Status Mandatory Value list 1 : 6..6
Parent node dot1qStaticUnicastEntry First child None Description The destination MAC address in a frame to which this entry's filtering information applies. This object must take the value of a unicast address.	

	Object name dot1qStaticUnicastReceivePort Object ID 1.3.6.1.2.1.17.7.1.3.1.1.2 Module Q-BRIDGE-MIB
	Base syntax Integer Composed syntax INTEGER Access Not_Accessible Status Mandatory Value list 1 : 0..65535
Parent node dot1qStaticUnicastEntry First child None Description Either the value '0', or the port number of the port from which a frame must be received in order for this entry's filtering information to apply. A value of zero indicates that this entry applies on all ports of the device for which there is no other applicable entry.	

	Object name dot1qStaticUnicastAllowedToGoTo Object ID 1.3.6.1.2.1.17.7.1.3.1.1.3 Module Q-BRIDGE-MIB
	Base syntax Octet String Composed syntax PortList Access Read-Write Status Mandatory
Parent node dot1qStaticUnicastEntry First child None Description The set of ports for which a frame with a specific unicast address will be flooded in the event that it has not been learned. It also specifies the set of ports a specific unicast address may be dynamically learnt on. The dot1qTpFdbTable will have an equivalent entry with a dot1qTpFdbPort value of '0' until this address has been learnt, when it will be updated with the port the address has been seen on. This only applies to ports that are members of the VLAN, defined by dot1qVlanCurrentEgressPorts. The default value of this object is a string of ones of appropriate length.	

	Object name dot1qStaticUnicastStatus Object ID 1.3.6.1.2.1.17.7.1.3.1.1.4 Module Q-BRIDGE-MIB
	Base syntax Integer Composed syntax INTEGER Access Read-Write Status Mandatory Value list 1 : other(1) 2 : invalid(2) 3 : permanent(3) 4 : deleteOnReset(4) 5 : deleteOnTimeout(5)
Parent node dot1qStaticUnicastEntry 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 differ from the following values. invalid(2) - writing this value to the object removes the corresponding entry. permanent(3) - this entry is currently in use and will remain so after the next reset of the bridge. deleteOnReset(4) - this entry is currently in use and will remain so until the next reset of the bridge. deleteOnTimeout(5) - this entry is currently in use and will remain so until it is aged out.	