# How to configure VLAN on DGS-2108 H/W A

**Change VLAN mode**

In this example, we change vlan mode to tag base

snmpset -c private -v 1 192.168.0.1 1.3.6.1.4.1.171.10.61.2.11.7.0 i 2

**Create vlan VID 100**

snmpset -c private -v 1 192.168.0.1    1.3.6.1.4.1.171.10.61.2.13.1.1.5.100 i 4

1.3.6.1.4.1.171.10.61.2.13.1.1.5.100 ---------------- VID

**Change port 1-4 to VLAN 100**

snmpset  -c  private  -v1  192.168.0.1   1.3.6.1.4.1.171.10.61.2.13.1.1.3.100   x   F0000000

1.3.6.1.4.1.171.10.61.2.13.1.1.4.100 x F0000000

   **Port define example**


0X FF000000 → 11111111 |00000000|00000000|00000000|00000000|00000000|

              1-8 port

0X0F000000 → 00001111 |00000000|00000000|00000000|00000000|00000000|

              5-8 port

0XF0000000 → 11110000 |00000000|00000000|00000000|00000000|00000000|

              1-4 port


**Change PVID of port 1-4 as 100**

snmpset -c private -v1 192.168.0.1 1.3.6.1.4.1.171.10.61.2.13.2.1.2.1 i 100

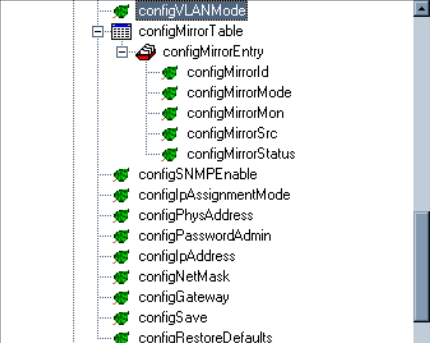snmpset -c private -v1 192.168.0.1 1.3.6.1.4.1.171.10.61.2.13.2.1.2.2 i 100

snmpset -c private -v1 192.168.0.1 1.3.6.1.4.1.171.10.61.2.13.2.1.2.3 i 100

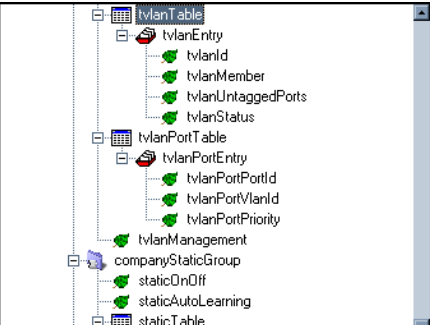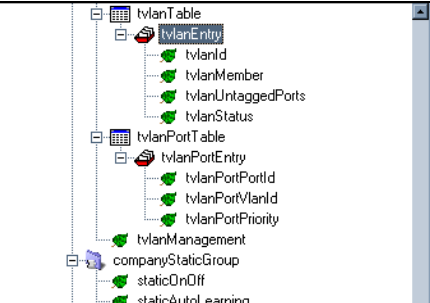snmpset -c private -v1 192.168.0.1 1.3.6.1.4.1.171.10.61.2.13.2.1.2.4 i 100
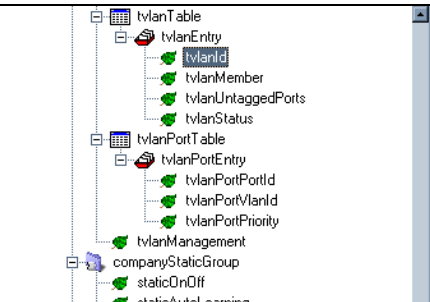
**Remove port 1-4 from default VLAN**

snmpset  -c  private  -v1  192.168.0.1   1.3.6.1.4.1.171.10.61.2.13.1.1.3.1   x   0F000000

1.3.6.1.4.1.171.10.61.2.13.1.1.4.1 x 0F000000

# VLAN Releated OID

**Panel 1**

Tree:
- configVLANMode
- configMirrorTable
  - configMirrorEntry
    - configMirrorId
    - configMirrorMode
    - configMirrorMon
    - configMirrorSrc
    - configMirrorStatus
- configSNMPEnable
- configIpAssignmentMode
- configPhysAddress
- configPasswordAdmin
- configIpAddress
- configNetMask
- configGateway
- configSave
- configRestoreDefaults

```
Object name        configVLANMode
Object ID          1.3.6.1.4.1.171.10.61.2.11.7
Module             DES-2108-MIB

Base syntax        Integer
Composed syntax    INTEGER
Access             Read-Write
Status             Mandatory
Value list         1 : modePortBased(1)
                   2 : modeTagBased(2)

Parent node        companyConfigGroup
First child        None
Description        Determines the VLAN mode.
```

**Panel 2**

Tree:
- tvlanTable
  - tvlanEntry
    - tvlanId
    - tvlanMember
    - tvlanUntaggedPorts
    - tvlanStatus
- tvlanPortTable
  - tvlanPortEntry
    - tvlanPortPortId
    - tvlanPortVlanId
    - tvlanPortPriority
- tvlanManagement
- companyStaticGroup
  - staticOnOff
  - staticAutoLearning
- staticTable

```
Object name        tvlanTable
Object ID          1.3.6.1.4.1.171.10.61.2.13.1
Module             DES-2108-MIB

Base syntax        Sequence Of tvlanEntry
Access             Not_Accessible
Status             Mandatory
Sequence           1:tvlanId - Integer
                   2:tvlanMember - Octet String
                   3:tvlanUntaggedPorts - Octet String
                   4:tvlanStatus - Integer

Parent node        companyTVlanGroup
First child        tvlanEntry
Description        A list of the VLANs
```

**Panel 3**

Tree:
- tvlanTable
  - tvlanEntry
    - tvlanId
    - tvlanMember
    - tvlanUntaggedPorts
    - tvlanStatus
- tvlanPortTable
  - tvlanPortEntry
    - tvlanPortPortId
    - tvlanPortVlanId
    - tvlanPortPriority
- tvlanManagement
- companyStaticGroup
  - staticOnOff
  - staticAutoLearning

```
Object name        tvlanEntry
Object ID          1.3.6.1.4.1.171.10.61.2.13.1.1
Module             DES-2108-MIB

Base syntax        Sequence
Access             Not_Accessible
Status             Mandatory
Index              1.tvlanId

Parent node        tvlanTable
First child        tvlanId
Description        A VLAN entry containing the VLAN id and name.
```

**Panel 4**

Tree:
- tvlanTable
  - tvlanEntry
    - tvlanId
    - tvlanMember
    - tvlanUntaggedPorts
    - tvlanStatus
- tvlanPortTable
  - tvlanPortEntry
    - tvlanPortPortId
    - tvlanPortVlanId
    - tvlanPortPriority
- tvlanManagement
- companyStaticGroup
  - staticOnOff
  - staticAutoLearning

```
Object name        tvlanId
Object ID          1.3.6.1.4.1.171.10.61.2.13.1.1.1
Module             DES-2108-MIB

Base syntax        Integer
Composed syntax    INTEGER
Access             Read-Only
Status             Mandatory

Parent node        tvlanEntry
First child        None
Description        The VLAN identifier.  A maximum of 64 VLANs is supported.
                   The value must be from 1 to 4094.
```

**Panel 1:**

Tree: tvlanTable > tvlanEntry > tvlanId, **tvlanMember**, tvlanUntaggedPorts, tvlanStatus; tvlanPortTable > tvlanPortEntry > tvlanPortPortId, tvlanPortVlanId, tvlanPortPriority; tvlanManagement; companyStaticGroup > staticOnOff, staticAutoLearning, staticTable > staticEntry > staticId, staticMac, staticPort, staticVlanID, staticStatus; companyIgsGroup > igsSystem > igsStatus, igsRouterPortPurgeInterval, igsHostPortPurgeInterval

```
Object name        tvlanMember
Object ID          1.3.6.1.4.1.171.10.61.2.13.1.1.3
Module             DES-2108-MIB

Base syntax        Octet String
Composed syntax    PortList
Access             Read-Write
Status             Mandatory
Value list         1 : 6..6

Parent node        tvlanEntry
First child        None
Description        The set of the device's member ports that belong
                   to the VLAN.

                   Each octet within the value of this object specifies a
                   set of eight ports, with the first octet specifying ports
                   1 through 8, the second octet specifying ports 9
                   through 16, etc.  Within each octet, the most
                   significant bit represents the lowest numbered
                   port, and the least significant bit represents the
                   highest numbered port.  Thus, each port of the
                   VLAN is represented by a single bit within the
                   value of this object.  If that bit has a value of
                   '1' then that port is included in the set of
                   ports; the port is not included if its bit has a
                   value of '0'.
```

**Panel 2:**

Tree: tvlanTable > tvlanEntry > tvlanId, tvlanMember, **tvlanUntaggedPorts**, tvlanStatus; tvlanPortTable > tvlanPortEntry > tvlanPortPortId, tvlanPortVlanId, tvlanPortPriority; tvlanManagement; companyStaticGroup > staticOnOff, staticAutoLearning, staticTable

```
Object name        tvlanUntaggedPorts
Object ID          1.3.6.1.4.1.171.10.61.2.13.1.1.4
Module             DES-2108-MIB

Base syntax        Octet String
Composed syntax    PortList
Access             Read-Write
Status             Mandatory
Value list         1 : 6..6

Parent node        tvlanEntry
First child        None
Description        If that bit has a value of '1' the outgoing frame on the egress
                   port is untagged. If that bit has a value of '0' the outgoing
                   frame on the egress port is tagged.
```

**Panel 3:**

Tree: tvlanTable > tvlanEntry > tvlanId, tvlanMember, tvlanUntaggedPorts, **tvlanStatus**; tvlanPortTable > tvlanPortEntry > tvlanPortPortId, tvlanPortVlanId, tvlanPortPriority; tvlanManagement; companyStaticGroup > staticOnOff, staticAutoLearning, staticTable > staticEntry

```
Object name        tvlanStatus
Object ID          1.3.6.1.4.1.171.10.61.2.13.1.1.5
Module             DES-2108-MIB

Base syntax        Integer
Composed syntax    INTEGER
Access             Read-Write
Status             Mandatory
Value list         1 : active(1)
                   2 : createAndGo(4)
                   3 : destroy(6)

Parent node        tvlanEntry
First child        None
Description        The status of an entry in the VLAN Table.  Only a subset
                   of the rowstatus variables (active, createAndGo, destroy)
                   are available.
```

**Panel 4:**

Tree: companyTVlanGroup > tvlanTable > tvlanEntry > tvlanId, tvlanMember, tvlanUntaggedPorts, tvlanStatus; **tvlanPortTable** > tvlanPortEntry > tvlanPortPortId, tvlanPortVlanId, tvlanPortPriority; tvlanManagement; companyStaticGroup > staticOnOff, staticAutoLearning

```
Object name        tvlanPortTable
Object ID          1.3.6.1.4.1.171.10.61.2.13.2
Module             DES-2108-MIB

Base syntax        Sequence Of tvlanPortEntry
Access             Not_Accessible
Status             Mandatory
Sequence           1:tvlanPortPortId - Integer
                   2:tvlanPortVlanId - Integer
                   3:tvlanPortPriority - Integer

Parent node        companyTVlanGroup
First child        tvlanPortEntry
Description        A list of ports and their associated VLAN.
```

```
companyTVlanGroup                    Object name       tvlanPortEntry
  tvlanTable                         Object ID         1.3.6.1.4.1.171.10.61.2.13.2.1
    tvlanEntry                       Module            DES-2108-MIB
      tvlanId
      tvlanMember                    Base syntax       Sequence
      tvlanUntaggedPorts             Access            Not_Accessible
      tvlanStatus                    Status            Mandatory
  tvlanPortTable                     Index             1.tvlanPortPortId
    tvlanPortEntry
      tvlanPortPortId                Parent node       tvlanPortTable
      tvlanPortVlanId                First child       tvlanPortPortId
      tvlanPortPriority              Description       Information pertaining to an individual port regarding
  tvlanManagement                                      to which VLAN it belongs.
companyStaticGroup
  staticOnOff
  staticAutoLearning
```



```
companyTVlanGroup                    Object name       tvlanPortPortId
  tvlanTable                         Object ID         1.3.6.1.4.1.171.10.61.2.13.2.1.1
    tvlanEntry                       Module            DES-2108-MIB
      tvlanId
      tvlanMember                    Base syntax       Integer
      tvlanUntaggedPorts             Composed syntax   INTEGER
      tvlanStatus                    Access            Read-Only
  tvlanPortTable                     Status            Mandatory
    tvlanPortEntry
      tvlanPortPortId                Parent node       tvlanPortEntry
      tvlanPortVlanId                First child       None
      tvlanPortPriority              Description       A port identifier that is in the range of 1 to ifNumber.
  tvlanManagement
companyStaticGroup
  staticOnOff
  staticAutoLearning
```



```
companyTVlanGroup                    Object name       tvlanPortVlanId
  tvlanTable                         Object ID         1.3.6.1.4.1.171.10.61.2.13.2.1.2
    tvlanEntry                       Module            DES-2108-MIB
      tvlanId
      tvlanMember                    Base syntax       Integer
      tvlanUntaggedPorts             Composed syntax   INTEGER
      tvlanStatus                    Access            Read-Write
  tvlanPortTable                     Status            Mandatory
    tvlanPortEntry
      tvlanPortPortId                Parent node       tvlanPortEntry
      tvlanPortVlanId                First child       None
      tvlanPortPriority              Description       The default VLAN identifier.
  tvlanManagement
companyStaticGroup
  staticOnOff
  staticAutoLearning
```



```
companyTVlanGroup                    Object name       tvlanPortPriority
  tvlanTable                         Object ID         1.3.6.1.4.1.171.10.61.2.13.2.1.3
    tvlanEntry                       Module            DES-2108-MIB
      tvlanId
      tvlanMember                    Base syntax       Integer
      tvlanUntaggedPorts             Composed syntax   INTEGER
      tvlanStatus                    Access            Read-Write
  tvlanPortTable                     Status            Mandatory
    tvlanPortEntry
      tvlanPortPortId                Parent node       tvlanPortEntry
      tvlanPortVlanId                First child       None
      tvlanPortPriority              Description       The default priority.
  tvlanManagement
companyStaticGroup
  staticOnOff
  staticAutoLearning
```