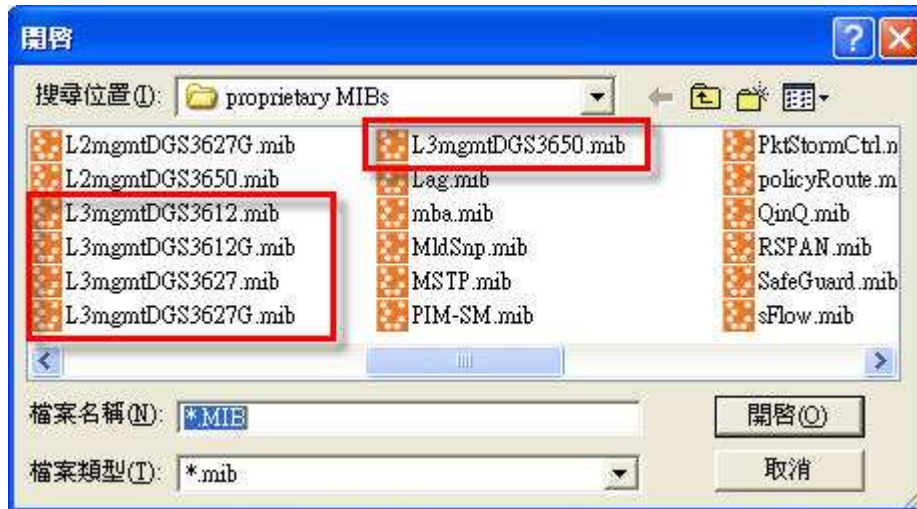


How to “create ipif” via NetSNMP on DGS-3600 series?

The OIDs for configuring “IP interface” are defined in “DGS36xx-SWL3MGMT-MIB”.



The following commands show how to create ipif name “test”, ipaddress 192.168.1.1, subnetmask 255.255.255.0, VLAN test, Admin State enabled via NetSNMP on **DGS-3627G** as CLI commands.

```
DGS-3627G Gigabit Ethernet switch
Command Line Interface
Firmware: Build 2.50.B25
Copyright(C) 2008 D-LINK Corporation. All rights reserved.
UserName:
Password:
DGS-3627G:5#enable snmp
Command: enable snmp
Success.
DGS-3627G:5#create vlan test tag 10
Command: create vlan test tag 10
Success.
DGS-3627G:5#create ipif test 192.168.1.1/24 test state enable
```

Relative OIDs for reference.

IP interface name : read-only

The screenshot shows a tree view on the left with 'swL3IpCtrlInterfaceName' selected and highlighted with a red box. The details pane on the right shows the following information:

Object name	swL3IpCtrlInterfaceName
Object ID	1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.1
Module	DGS3627G-SWL3MGMT-MIB
Base syntax	OctetString
Composed syntax	DisplayString
Access	Read-Only
Status	Current
Value list	1 : 1.12
Parent node	swL3IpCtrlEntry
First child	None
Description	This object indicates the name of the IP interface.

IP Address

The screenshot shows a tree view on the left with 'swL3IpCtrlIpAddr' selected and highlighted with a red box. The details pane on the right shows the following information:

Object name	swL3IpCtrlIpAddr
Object ID	1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.3
Module	DGS3627G-SWL3MGMT-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Write
Status	Current
Parent node	swL3IpCtrlEntry
First child	None
Description	The IP address of the interfaces. This object only can take the value of the unicast IP address.

Subnetmask

The screenshot shows a tree view on the left with 'swL3IpCtrlIpSubnetMask' selected and highlighted with a red box. The details pane on the right shows the following information:

Object name	swL3IpCtrlIpSubnetMask
Object ID	1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.4
Module	DGS3627G-SWL3MGMT-MIB
Base syntax	IP Address
Composed syntax	InAddress
Access	Read-Write
Status	Current
Parent node	swL3IpCtrlEntry
First child	None
Description	The IP net mask for this interface.

VLAN name

Object name: swL3pCtrlMgmt
Object ID: 136141171.11708321315
Module: DGS3627G-3WL3MGT-MIB

Base syntax: OctetString
Composed syntax: DisplayString
Access: Read-Write
Status: Current
Value list: 1..0..32

Parent node: swL3pCtrlEntry
First child: None
Description: This object indicates the IP control entry's VLAN name. The VLAN name in each entry must be unique in the IP Control Table.

Admin State

Object name: swL3pCtrlAdminState
Object ID: 136141171.11708321319
Module: DGS3627G-3WL3MGT-MIB

Base syntax: Integer
Composed syntax: INTEGER
Access: Read-Write
Status: Current
Value list: 1..enabled(1)
2..disabled(2)

Parent node: swL3pCtrlEntry
First child: None
Description: The state of the IP interface.

Control State : Create and Go (4)

Object name: swL3pCtrlState
Object ID: 136141171.117083213116
Module: DGS3627G-3WL3MGT-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: swL3pCtrlEntry
First child: None
Description: This variable displays the status of the entry. The status is used for creating, modifying, and deleting instances of the objects in this table.

NetSNMP commands :

116.101.115.116 => "test" in decimal

74657374 => "test" in Hex

snmpset -v2c -c private 10.90.90.90

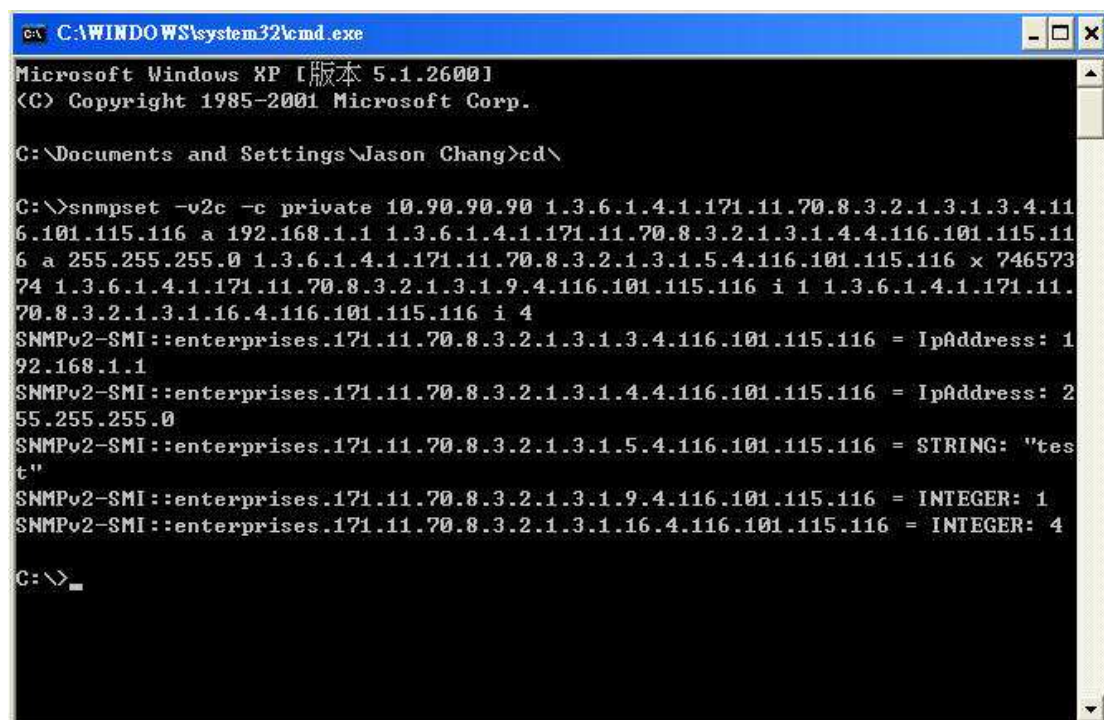
1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.3.4.116.101.115.116 a 192.168.1.1

1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.4.4.116.101.115.116 a 255.255.255.0

1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.5.4.116.101.115.116 x 74657374

1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.9.4.116.101.115.116 i 1

1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.16.4.116.101.115.116 i 4

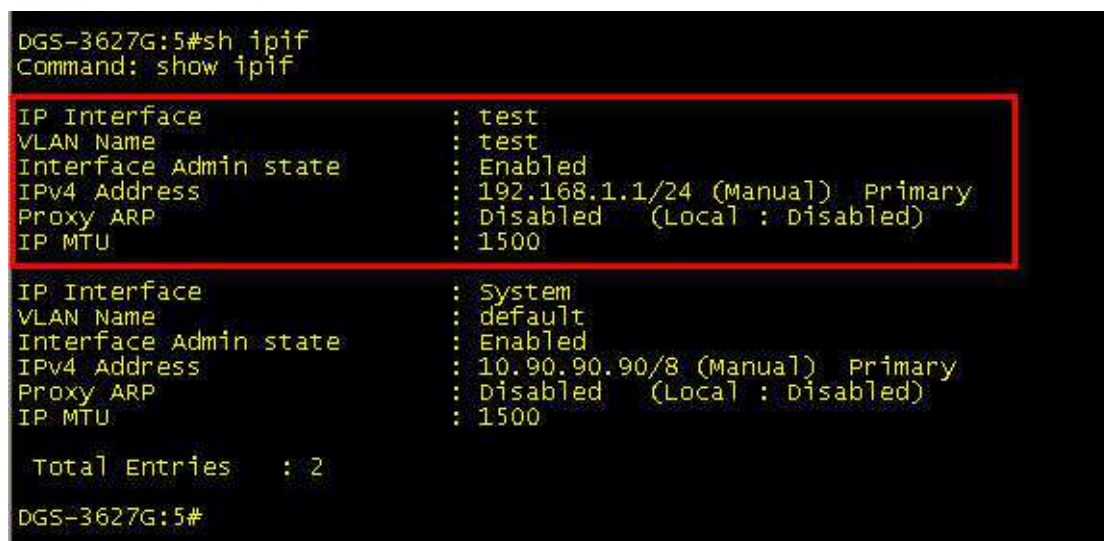


```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jason Chang>cd\

C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.3.4.116.101.115.116 a 192.168.1.1 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.4.4.116.101.115.116 a 255.255.255.0 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.5.4.116.101.115.116 x 74657374 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.9.4.116.101.115.116 i 1 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.16.4.116.101.115.116 i 4
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.3.4.116.101.115.116 = IPAddress: 192.168.1.1
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.4.4.116.101.115.116 = IPAddress: 255.255.255.0
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.5.4.116.101.115.116 = STRING: "test"
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.9.4.116.101.115.116 = INTEGER: 1
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.16.4.116.101.115.116 = INTEGER: 4

C:\>_
```



```
DGS-3627G:5#sh ipif
Command: show ipif

IP Interface           : test
VLAN Name              : test
Interface Admin state : Enabled
IPv4 Address           : 192.168.1.1/24 (Manual) Primary
Proxy ARP              : Disabled (Local : Disabled)
IP MTU                 : 1500

IP Interface           : System
VLAN Name              : default
Interface Admin state : Enabled
IPv4 Address           : 10.90.90.90/8 (Manual) Primary
Proxy ARP              : Disabled (Local : Disabled)
IP MTU                 : 1500

Total Entries         : 2

DGS-3627G:5#
```

Config ipif “test” to be Admin State “Disabled” (or other parameters in “read-write”) individually.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jason Chang>cd\

C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.3.4.11
6.101.115.116 a 192.168.1.1 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.4.4.116.101.115.11
6 a 255.255.255.0 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.5.4.116.101.115.116 x 746573
74 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.9.4.116.101.115.116 i 1 1.3.6.1.4.1.171.11.
70.8.3.2.1.3.1.16.4.116.101.115.116 i 4
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.3.4.116.101.115.116 = IpAddress: 1
92.168.1.1
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.4.4.116.101.115.116 = IpAddress: 2
55.255.255.0
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.5.4.116.101.115.116 = STRING: "tes
t"
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.9.4.116.101.115.116 = INTEGER: 1
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.16.4.116.101.115.116 = INTEGER: 4

C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.8.3.2.1.3.1.9.4.11
6.101.115.116 i 2
SNMPv2-SMI::enterprises.171.11.70.8.3.2.1.3.1.9.4.116.101.115.116 = INTEGER: 2

C:\>_
```

After

```
DGS-3627G:5#sh ipif
Command: show ipif

IP Interface           : test
VLAN Name              : test
Interface Admin state  : Disabled
IPv4 Address           : 192.168.1.1/24 (Manual) Primary
Proxy ARP              : Disabled (Local : Disabled)
IP MTU                 : 1500

IP Interface           : System
VLAN Name              : default
Interface Admin state  : Enabled
IPv4 Address           : 10.90.90.90/8 (Manual) Primary
Proxy ARP              : Disabled (Local : Disabled)
IP MTU                 : 1500

Total Entries : 2

DGS-3627G:5#
```

Regarding “delete ipif” function, there is no OID to support this feature and could not be implemented via D-View Module neither.

As other models of DGS-3600 series, please refer to other “SWL3MGMT-MIBs”.