

## How to get the show stack\_information via SNMP

```
DGS-3120-24PC:admin#
DGS-3120-24PC:admin#show stack_information
Command: show stack_information

Topology           : Duplex_chain
My Box ID         : 1
Master ID         : 1
BK Master ID      : 2
Box Count         : 2

Force Master Role : Disabled
Trap State        : Enabled
Log State         : Enabled

Box ID  User Set      Type              Exist  Prio-  MAC          Prom   Runtime  H/W
      ID  Set          Type              rity   rity   MAC          version version version
-----
1      Auto  DGS-3120-24PC  Exist  32    5C-32-10-31-30-01  2.00.003  3.00.D026  A1
2      Auto  DGS-3120-48TC  Exist  32    5C-D9-98-C7-31-D5  2.00.003  3.00.B025  A1
3      -      NOT_EXIST      No      -      -                -         -         -
4      -      NOT_EXIST      No      -      -                -         -         -
5      -      NOT_EXIST      No      -      -                -         -         -
6      -      NOT_EXIST      No      -      -                -         -         -

DGS-3120-24PC:admin# █
```

Command: show stack\_information

1.Topology:

OID: 1.3.6.1.4.1.171.12.11.1.9.5.0

SNMP:

```
G:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.5.0
SNMPv2-SMI::enterprises.171.12.11.1.9.5.0 = INTEGER: 2
```

```
Object name      swUnitTopology
Object ID       1.3.6.1.4.1.171.12.11.1.9.5
Module          EQUIPMENT-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Only
Status         Current
Value list      1 : stand-alone(1)
                2 : duplex-chain(2)
                3 : duplex-ring(3)
                4 : star(4)
                5 : unstable(5)

Parent node     swUnitMgmt
First child     None
Description     The stacking topology state.
```

## 2.Box\_ID

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.16.X

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.16.1
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.16.1 = INTEGER: 1
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.16.2
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.16.2 = INTEGER: 2
```

```
Object name      swUnitMgmtBoxId
Object ID        1.3.6.1.4.1.171.12.11.1.9.4.1.16
Module           EQUIPMENT-MIB

Base syntax      Integer
Composed syntax  INTEGER
Access           Read-Write
Status           Current
Value list       1 : box-1(1)
                  2 : box-2(2)
                  3 : box-3(3)
                  4 : box-4(4)
                  5 : box-5(5)
                  6 : box-6(6)
                  7 : box-7(7)
                  8 : box-8(8)
                  9 : box-9(9)
                 10 : box-10(10)
                 11 : box-11(11)
                 12 : box-12(12)
                 13 : auto(13)

Parent node      swUnitMgmtEntry
First child      None
Description      The box ID of the stacking unit.
                  When show, it shows the current box ID of this unit;
                  When set, it sets the new box ID, and the new box ID will
                  take effect after the next boot.
```

### 3. User Set

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.14

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.14
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.14.1 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.14.2 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.14.3 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.14.4 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.14.5 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.14.6 = INTEGER: 1
```

Object name	swUnitMgmtUserSetState
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.14
Module	EQUIPMENT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : other(1) 2 : auto(2) 3 : user(3)
Parent node	swUnitMgmtEntry
First child	None
Description	This object indicates the user set state of this unit.

### 4. type

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.9

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.9
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.9.1 = STRING: "DGS-3120-24PC"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.9.2 = STRING: "DGS-3120-48TC"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.9.3 = STRING: "NOT_EXIST"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.9.4 = STRING: "NOT_EXIST"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.9.5 = STRING: "NOT_EXIST"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.9.6 = STRING: "NOT_EXIST"
```

Object name	swUnitMgmtModuleName
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.9
Module	EQUIPMENT-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Only
Status	Current
Value list	1 : 0..32
Parent node	swUnitMgmtEntry
First child	None
Description	A textual string containing the stacking unit module name.

5.Exist:

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.15

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.15
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.15.1 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.15.2 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.15.3 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.15.4 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.15.5 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.15.6 = INTEGER: 2
```

Object name	swUnitMgmtExistState
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.15
Module	EQUIPMENT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : exist(1) 2 : no-exist(2)
Parent node	swUnitMgmtEntry
First child	None
Description	The state of existence of this unit.

6.MAC:

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.2

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.2
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.2.1 = Hex-STRING: 5C 32 10 31 30 01
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.2.2 = Hex-STRING: 5C D9 98 C7 31 D5
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.2.3 = Hex-STRING: 00 00 00 00 00 00
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.2.4 = Hex-STRING: 00 00 00 00 00 00
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.2.5 = Hex-STRING: 00 00 00 00 00 00
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.2.6 = Hex-STRING: 00 00 00 00 00 00
```

Object name	swUnitMgmtMacAddr
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.2
Module	EQUIPMENT-MIB
Base syntax	Octet String
Composed syntax	MacAddress
Access	Read-Only
Status	Current
Value list	1 : 6..6
Parent node	swUnitMgmtEntry
First child	None
Description	The MAC address of this unit.

7.Prom ver:

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.10

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.10
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.10.1 = STRING: "2.00.003"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.10.2 = STRING: "2.00.003"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.10.3 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.10.4 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.10.5 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.10.6 = ""
```

Object name	swUnitMgmtPromVersion
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.10
Module	EQUIPMENT-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Only
Status	Current
Value list	1 : 0..255
Parent node	swUnitMgmtEntry
First child	None
Description	A textual string containing the PROM version of the stacking unit.

8.Firmware ver.

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.11

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.11
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.11.1 = STRING: "3.00.D026"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.11.2 = STRING: "3.00.B025"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.11.3 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.11.4 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.11.5 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.11.6 = ""
```

Object name	swUnitMgmtFirmwareVersion
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.11
Module	EQUIPMENT-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Only
Status	Current
Value list	1 : 0..255
Parent node	swUnitMgmtEntry
First child	None
Description	A textual string containing the firmware version of the stacking unit.

9.H/W ver.

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.12

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.12
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.12.1 = STRING: "01"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.12.2 = STRING: "01"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.12.3 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.12.4 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.12.5 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.12.6 = ""
```

Object name	swUnitMgmtHardwareVersion
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.12
Module	EQUIPMENT-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Only
Status	Current
Value list	1 : 0..255
Parent node	swUnitMgmtEntry
First child	None
Description	A textual string containing the hardware version of the stacking unit.

10. Current Mode

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.1.7

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.7
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.7.1 = INTEGER: 4
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.7.2 = INTEGER: 6
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.7.3 = INTEGER: 5
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.7.4 = INTEGER: 5
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.7.5 = INTEGER: 5
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.7.6 = INTEGER: 5
```

Object name	swUnitMgmtCurrentMode
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.7
Module	EQUIPMENT-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : other(1) 2 : auto(2) 3 : stand-alone(3) 4 : master(4) 5 : slave(5) 6 : backup-master(6)
Parent node	swUnitMgmtEntry
First child	None
Description	The current stacking role of this unit.

11.Serial no.:

OID: 1.3.6.1.4.1.171.12.11.1.9.4.1.1.17

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.4.1.17
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.17.1 = STRING: "DGS3120SAMPLE"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.17.2 = STRING: "P4XU1AA000002"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.17.3 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.17.4 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.17.5 = ""
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.17.6 = ""
```

Object name	swUnitMgmtSerialNumber
Object ID	1.3.6.1.4.1.171.12.11.1.9.4.1.17
Module	EQUIPMENT-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Only
Status	Current
Value list	1 : 0..255
Parent node	swUnitMgmtEntry
First child	None
Description	A text string containing the serial number of the stacking

12.Global Status:

OID:1.3.6.1.4.1.171.12.11.1.9.6

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.11.1.9.6
SNMPv2-SMI::enterprises.171.12.11.1.9.6.0 = INTEGER: 1
```

1.Enable,2.Disable