

How to get the show stack _ information via SNMP on DGS-3x20 Switch Series

```
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 User                Prio-   Prom   Runtime  H/W
ID  Set                Type    Exist 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. Stacking-Topology:

OID: [1.3.6.1.4.1.171.12.11.1.9.5.0](#)

SNMP:

```
C:\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.Stack 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: "A1"
SNMPv2-SMI::enterprises.171.12.11.1.9.4.1.12.2 = STRING: "A1"
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