

How to get the show stack information via SNMP on DXS-3600

```
DXS-3600-32S TenGigabit Ethernet Switch
Command Line Interface
Firmware: Build 2.44.B071
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Switch>
Switch>
Switch>
Switch>en
Switch#sh stack

Stacking Mode      : Enabled
Stack Preempt     : Enabled
Trap State        : Disabled

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

Box  User  Module
ID   Set   Name
-----
1   Auto  DXS-3600-32S  Exist 32  00-11-22-33-44-55  1.10.007  2.44.B071  B1
2   Auto  DXS-3600-32S  Exist 32  00-17-9A-15-68-00  1.10.007  2.44.B071  B1
3   -     NOT_EXIST      No
4   -     NOT_EXIST      No

Switch#
```

Command: show stack

1.Topology:

OID: [1.3.6.1.4.1.171.14.9.1.1.1](#)

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.14.9.1.1.1
SNMPv2-SMI::enterprises.171.14.9.1.1.1.0 = INTEGER: 2

C:\Users\AaronPan>
```

```
Object name      dStackTopology
Object ID        1.3.6.1.4.1.171.14.9.1.1.1
Module           DLINKSW-STACK-MIB

Base syntax      Integer
Composed syntax  INTEGER
Access           Read-Only
Status           Current
Value list       1 : standAlone(1)
                 2 : duplexChain(2)
                 3 : duplexRing(3)

Parent node      dStackMgmt
First child      None
Description      This object indicates the state of the stacking topology.
```

2.MyBox_ID

OID: 1.3.6.1.4.1.171.14.9.1.1.2

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.14.9.1.1.2
SNMPv2-SMI::enterprises.171.14.9.1.1.2.0 = INTEGER: 1
```

```
Object name      dStackMyBoxId
Object ID        1.3.6.1.4.1.171.14.9.1.1.2
Module           DLINKSW-STACK-MIB

Base syntax      Integer
Composed syntax  Integer32
Access           Read-Only
Status           Current
Value list       1 : 1..255

Parent node      dStackMgmt
First child      None
Description      This object indicates the box ID of the device.
```

3.StackAdmin

OID: 1.3.6.1.4.1.171.14.9.1.1.4

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.14.9.1.1.4
SNMPv2-SMI::enterprises.171.14.9.1.1.4.0 = INTEGER: 1
```

```

Object name      dStackAdminEnabled
Object ID       1.3.6.1.4.1.171.14.9.1.1.4
Module         DLINKSW-STACK-MIB

Base syntax     Integer
Composed syntax TruthValue
Access         Read-Write
Status         Current
Value list     1 : true(1)
              2 : false(2)

Parent node     dStackMgmt
First child    None
Description     This object indicates whether the administrative stacking mode has
                been enabled or not.
                The new setting will not take effect until the next reboot.
    
```

4. StackPreempt

OID: 1.3.6.1.4.1.171.14.9.1.1.5

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.14.9.1.1.5
SNMPv2-SMI::enterprises.171.14.9.1.1.5.0 = INTEGER: 1
```

```

Object name      dStackPreempt
Object ID       1.3.6.1.4.1.171.14.9.1.1.5
Module         DLINKSW-STACK-MIB

Base syntax     Integer
Composed syntax TruthValue
Access         Read-Write
Status         Current
Value list     1 : true(1)
              2 : false(2)

Parent node     dStackMgmt
First child    None
Description     This object indicates whether the preemption is enabled or not.
                When preemption is enabled, the unit that play master role will
                change as units with better priority are added to the stack.
    
```

5. StackTrapState

OID:1.3.6.1.4.1.171.14.9.1.1.6

SNMP:

```
C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.14.9.1.1.6
SNMPv2-SMI::enterprises.171.14.9.1.1.6.0 = INTEGER: 2
```

```

Object name      dStackTrapStateEnabled
Object ID        1.3.6.1.4.1.171.14.9.1.1.6
Module           DLINKSW-STACK-MIB

Base syntax      Integer
Composed syntax  TruthValue
Access           Read-Write
Status          Current
Value list       1 : true(1)
                 2 : false(2)

Parent node      dStackMgmt
First child      None
Description      This object indicates whether the sending of stacking related traps
                 is enabled or not.

```

6. StackUnitInfo

OID: 1.3.6.1.4.1.171.14.9.1.1.8

SNMP:

```

C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.14.9.1.1.8
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.2.1 = INTEGER: 1
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.2.2 = INTEGER: 1
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.2.3 = INTEGER: 2
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.2.4 = INTEGER: 2
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.3.1 = INTEGER: 4
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.3.2 = INTEGER: 6
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.3.3 = INTEGER: 5
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.3.4 = INTEGER: 5
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.4.1 = INTEGER: 0
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.4.2 = INTEGER: 0
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.4.3 = INTEGER: 0
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.4.4 = INTEGER: 0
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.5.1 = STRING: "DXS-3600-32S"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.5.2 = STRING: "DXS-3600-32S"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.5.3 = STRING: "NOT_EXIST"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.5.4 = STRING: "NOT_EXIST"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.6.1 = INTEGER: 32
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.6.2 = INTEGER: 32
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.6.3 = INTEGER: 0
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.6.4 = INTEGER: 0
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.7.1 = Hex-STRING: 00 11 22 33 44 55
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.7.2 = Hex-STRING: 00 17 9A 15 68 00
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.7.3 = Hex-STRING: 00 00 00 00 00 00
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.7.4 = Hex-STRING: 00 00 00 00 00 00
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.8.1 = STRING: "1.10.007"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.8.2 = STRING: "1.10.007"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.8.3 = ""
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.8.4 = ""
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.1 = STRING: "2.44.B071"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.2 = STRING: "2.44.B071"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.3 = ""
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.4 = ""
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.10.1 = STRING: "B1"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.10.2 = STRING: "B1"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.10.3 = ""
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.10.4 = ""
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.14.1 = INTEGER: 1
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.14.2 = INTEGER: 65
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.14.3 = INTEGER: 129
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.14.4 = INTEGER: 193
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.15.1 = INTEGER: 30
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.15.2 = INTEGER: 30
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.15.3 = INTEGER: 0
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.15.4 = INTEGER: 0

```

```

Object name      dStackUnitInfoTable
Object ID       1.3.6.1.4.1.171.14.9.1.1.8
Module         DLINKSW-STACK-MIB

Base syntax     Sequence Of dStackUnitInfoEntry
Access         Not_Accessible
Status         Current
Sequence       1:dStackInfoBoxId - Integer
              2:dStackInfoExist - Integer
              3:dStackInfoRole - Integer
              4:dStackInfoUserSetBoxId - Integer
              5:dStackInfoModuleName - Octet String
              6:dStackInfoPriority - Integer
              7:dStackInfoMacAddr - Octet String
              8:dStackInfoPromVersion - Octet String
              9:dStackInfoFirmwareVer - Octet String
              10:dStackInfoHardwareVer - Octet String
              11:dStackInfoAdminBandwidth - Integer
              12:dStackInfoSIO1ActiveBandwidth - Integer
              13:dStackInfoSIO2ActiveBandwidth - Integer

Parent node     dStackMgmt
First child    dStackUnitInfoEntry
Description     This table displays the information of the devices in the stacking
                system.
                When stacking mode is not effectively enabled, there is no entry in
                this table.

```

Example: StackInfoFirmwareVesrion
 OID: 1.3.6.1.4.1.171.14.9.1.1.8.1.9.X X=unit ID
 SNMP:

```

C:\Users\AaronPan>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.14.9.1.1.8.1.9
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.1 = STRING: "2.44.B071"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.2 = STRING: "2.44.B071"
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.3 = ""
SNMPv2-SMI::enterprises.171.14.9.1.1.8.1.9.4 = ""

```

```

Object name      dStackInfoFirmwareVer
Object ID       1.3.6.1.4.1.171.14.9.1.1.8.1.9
Module         DLINKSW-STACK-MIB

Base syntax     Octet String
Composed syntax DisplayString
Access         Read-Only
Status         Current
Value list     1 : 0..255

Parent node     dStackUnitInfoEntry
First child    None
Description     A textual string containing the firmware version of the
                stacking device.

```