

How to get the show STP and CPU for DGS-3100 Series via SNMP

1) command: show utilization CPU

```
DGS-3100# sh utilization cpu
CPU utilization
-----
Five seconds - 4%      One minute - 4%      Five minutes - 3%
```

1.3.6.1.4.1.171.10.94.89.89.1.7	Five seconds
1.3.6.1.4.1.171.10.94.89.89.1.8	One minute
1.3.6.1.4.1.171.10.94.89.89.1.9	Five minutes

For example:

```
snmwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.1.7
```

1) command: show utilization CPU

```
Command: show utilization cpu
CPU Utilization
-----
Five seconds - 15 %      One minute - 14 %      Five minutes - 14 %
```

The OID is under:

```
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).AGENT-GENERAL-MIB(12).agentGeneralMgmt(1).agenBasicInfo(1).agentCPUUtilization(6)
```

This OID is for DGS-3120 series

For example:

```
snmwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.1.6
```

```
C:\Users\AaronPan>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.1.6
SNMPv2-SMI::enterprises.171.12.1.1.6.1.0 = INTEGER: 15
SNMPv2-SMI::enterprises.171.12.1.1.6.2.0 = INTEGER: 14
SNMPv2-SMI::enterprises.171.12.1.1.6.3.0 = INTEGER: 14
```

Object name	agentCPUUtilizationIn5sec
Object ID	1.3.6.1.4.1.171.12.1.1.6.1

Object name	agentCPUUtilizationIn1min
Object ID	1.3.6.1.4.1.171.12.1.1.6.2

Object name	agentCPUUtilizationIn5min
Object ID	1.3.6.1.4.1.171.12.1.1.6.3

2) command: show stp

```

Command: show stp

STP Bridge Global Settings
-----
STP Status           : Disabled
STP Version          : RSTP
Max Age              : 20
Hello Time           : 2
Forward Delay        : 15
Max Hops             : 20
TX Hold Count        : 6
Forwarding BPDU      : Disabled
New Root Trap        : Enabled
Topology Change Trap : Enabled
NNI BPDU Address     : dot1d

```

The OID is under:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).MSTP-MIB(12).swMSTPMIB(15).swMSTPGBIMgmt(1)

This OID is for DGS-3120 series

For example:

```
snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.15.1
```

```

C:\Users\AaronPan>snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.15.1
SNMPv2-SMI::enterprises.171.12.15.1.1.0 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.15.1.2.0 = INTEGER: 1
SNMPv2-SMI::enterprises.171.12.15.1.3.0 = INTEGER: 2000
SNMPv2-SMI::enterprises.171.12.15.1.4.0 = INTEGER: 200
SNMPv2-SMI::enterprises.171.12.15.1.5.0 = INTEGER: 1500
SNMPv2-SMI::enterprises.171.12.15.1.6.0 = INTEGER: 20
SNMPv2-SMI::enterprises.171.12.15.1.7.0 = INTEGER: 6
SNMPv2-SMI::enterprises.171.12.15.1.8.0 = INTEGER: 2
SNMPv2-SMI::enterprises.171.12.15.1.11.0 = INTEGER: 1

```

Object name	swMSTPStpAdminState
Object ID	1.3.6.1.4.1.171.12.15.1.1
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)

Object name	swMSTPStpVersion
Object ID	1.3.6.1.4.1.171.12.15.1.2
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : stp(0) 2 : rstp(1) 3 : mstp(2)

Object name	swMSTPStpMaxAge
Object ID	1.3.6.1.4.1.171.12.15.1.3
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 600..4000

Object name	swMSTPStpHelloTime
Object ID	1.3.6.1.4.1.171.12.15.1.4
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 100..1000

Object name	swMSTPStpForwardDelay
Object ID	1.3.6.1.4.1.171.12.15.1.5
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 400..3000

Object name	swMSTPStpMaxHops
Object ID	1.3.6.1.4.1.171.12.15.1.6
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..40

Object name	swMSTPStpTxHoldCount
Object ID	1.3.6.1.4.1.171.12.15.1.7
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..10

Object name	swMSTPStpForwardBPDU
Object ID	1.3.6.1.4.1.171.12.15.1.8
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)

Object name	swMSTPStpLBD
Object ID	1.3.6.1.4.1.171.12.15.1.9
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)

Object name	swMSTPStpLBDRecoverTime
Object ID	1.3.6.1.4.1.171.12.15.1.10
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 0..1000000

Object name	swMSTPNniBPDUAddress
Object ID	1.3.6.1.4.1.171.12.15.1.11
Module	MSTP-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : dot1d(1) 2 : dot1ad(2)

DGS-3120-48TC:admin#			
DGS-3120-48TC:admin#sh stp			
Command: show stp	1.3.6.1.4.1.171.12.15.1		
STP Bridge Global Settings			

STP Status : Disabled	1.3.6.1.4.1.171.12.15.1	1.true	2.disable
STP Version : RSTP	1.3.6.1.4.1.171.12.15.2	1	
Max Age : 20	1.3.6.1.4.1.171.12.15.3	ms	
Hello Time : 2	1.3.6.1.4.1.171.12.15.4	ms	
Forward Delay : 15	1.3.6.1.4.1.171.12.15.5	ms	
Max Hops : 20	1.3.6.1.4.1.171.12.15.6	20	
TX Hold Count : 6	1.3.6.1.4.1.171.12.15.7	6	
Forwarding BPDU : Disabled	1.3.6.1.4.1.171.12.15.8	1.true	2.disable
New Root Trap : Enabled			
Topology Change Trap : Enabled			
NNI BPDU Address : dot1d	1.3.6.1.4.1.171.12.15.11	1	
DGS-3120-48TC:admin#show ut cp	1.3.6.1.4.1.171.12.1.1.6		
Command: show utilization cpu	1.3.6.1.4.1.171.12.1.1.6.1	Five seconds	
	1.3.6.1.4.1.171.12.1.1.6.2	One minute	
CPU Utilization	1.3.6.1.4.1.171.12.1.1.6.3	Five minutes	

Five seconds - 17 % One minute - 16 % Five minutes - 16 %			