How to download / upload firmware/configuration from TFTP server
on DGS-3000-26TC via SNMP

MIB : Genmgmt.mib

agentBscFileSystemEntry : 1.3.6.1.4.1.171.12.1.2.18.1.1

```
Object name          agentBscFileSystemEntry
Object ID            1.3.6.1.4.1.171.12.1.2.18.1.1
Module               AGENT-GENERAL-MIB

Base syntax          Sequence
Access               Not_Accessible
Status               Current
Index                1.agentBscFileSystemIndex

Parent node          agentBscFileSystemTable
First child          agentBscFileSystemIndex
Description          A File System basic configuration entry that contains objects
                     describing a particular MIB supported by this agent.
```

agentBscFileSystemIndex : 1.3.6.1.4.1.171.12.1.2.18.1.1.1

```
Object name          agentBscFileSystemIndex
Object ID            1.3.6.1.4.1.171.12.1.2.18.1.1.1
Module               AGENT-GENERAL-MIB

Base syntax          Integer
Composed syntax      Integer32
Access               Read-Only
Status               Current

Parent node          agentBscFileSystemEntry
First child          None
Description          The table index for the file entry.
                     This object describes the file type.
                     runtime-code (1),
                     log-file (2),
                     cfg-file (3),
                     attack-log-file (7)
```

agentBscFileSystemServerAddr : 1.3.6.1.4.1.171.12.1.2.18.1.1.3

```
Object name          agentBscFileSystemServerAddr
Object ID            1.3.6.1.4.1.171.12.1.2.18.1.1.3
Module               AGENT-GENERAL-MIB

Base syntax          IP Address
Composed syntax      IpAddress
Access               Read-Write
Status               Current

Parent node          agentBscFileSystemEntry
First child          None
Description          The IP address where the file to be downloaded is located, or the IP address
                     where the file will be uploaded to.
```

agentBscFileSystemServerFileName : 1.3.6.1.4.1.171.12.1.2.18.1.1.5

```
Object name          agentBscFileSystemServerFileName
Object ID            1.3.6.1.4.1.171.12.1.2.18.1.1.5
Module               AGENT-GENERAL-MIB

Base syntax          Octet String
Composed syntax      DisplayString
Access               Read-Write
Status               Current
Value list           1 : 0..64

Parent node          agentBscFileSystemEntry
First child          None
Description          The name of the file to be downloaded from or uploaded to the TFTP server.
                     If agentBscFileSystemDeviceFileName is not set, the switch will default to using
                     the bootup file as the runtime image for the switch.
```

agentBscFileSystemLoadType : 1.3.6.1.4.1.171.12.1.2.18.1.1.8

```
Object name          agentBscFileSystemLoadType
Object ID            1.3.6.1.4.1.171.12.1.2.18.1.1.8
Module               AGENT-GENERAL-MIB

Base syntax          Integer
Composed syntax      INTEGER
Access               Read-Write
Status               Current
Value list           1 : other(1)
                     2 : upload(2)
                     3 : download(3)

Parent node          agentBscFileSystemEntry
First child          None
Description          This object allows the user to select a download or upload function for the file.

                     Note:
                     For systems that do not support changes to this object, setting a value for
                     this object will cause the system to return a bad-value error message.
```

agentBscFileSystemCtrl : 1.3.6.1.4.1.171.12.1.2.18.1.1.12

```
Object name          agentBscFileSystemCtrl
Object ID            1.3.6.1.4.1.171.12.1.2.18.1.1.12
Module               AGENT-GENERAL-MIB

Base syntax          Integer
Composed syntax      INTEGER
Access               Read-Write
Status               Current
Value list           1 : other(1)
                     2 : inactive(2)
                     3 : start(3)

Parent node          agentBscFileSystemEntry
First child          None
Description          This object allows the user to download runtime software. The settings
                     will take effect when the system restarts. See Note (1) below

                     Note 1:
                     For systems which do not support value changes to this object,
                     setting these values will cause the system to return a bad-value error message

                     start (3) - activate firmware.
```

(1)

download cfg from TFTP(10.90.90.101) server to DUT(10.90.90.90) :

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.18.1.1.3.3 a 10.90.90.101
1.3.6.1.4.1.171.12.1.2.18.1.1.5.3 s dgs3000.cfg 1.3.6.1.4.1.171.12.1.2.18.1.1.8.3 i 3
1.3.6.1.4.1.171.12.1.2.18.1.1.12.3 i 3

Set tftp address	SNMP Command
	1.3.6.1.4.1.171.12.1.2.18.1.1.3.x a (tftp address)
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
Set file name	1.3.6.1.4.1.171.12.1.2.18.1.1.5.x s (file name)
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
Set loadtype	1.3.6.1.4.1.171.12.1.2.18.1.1.8.x i y
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
	y=1 other, y=2 upload, y=3 download
Set SystemCtrl	1.3.6.1.4.1.171.12.1.2.18.1.1.12.x i y
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
	y=1 other, y=2 inactive, y=3 start

(2)

download F/W from TFTP(10.90.90.101) server to DUT(10.90.90.90) :

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.1.2.18.1.1.3.1 a 10.90.90.101
1.3.6.1.4.1.171.12.1.2.18.1.1.5.1 s DGS-3000.had 1.3.6.1.4.1.171.12.1.2.18.1.1.8.1 i 3
1.3.6.1.4.1.171.12.1.2.18.1.1.12.1 i 3

Set tftp address	SNMP Command
	1.3.6.1.4.1.171.12.1.2.18.1.1.3.x a (tftp address)
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
Set file name	1.3.6.1.4.1.171.12.1.2.18.1.1.5.x s (file name)
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
Set loadtype	1.3.6.1.4.1.171.12.1.2.18.1.1.8.x i y
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
	y=1 other, y=2 upload, y=3 download
Set SystemCtrl	1.3.6.1.4.1.171.12.1.2.18.1.1.12.x i y
	x=1 run-timecode, x=2 log-file, x=3 cfg-file, x=7 attack-log-file
	y=1 other, y=2 inactive, y=3 start