DGS-3120 SD Card Management Commands

Step1. Command "ss" could help us find relative commands.

```
            DGS-3120-24TC Gigabit Ethernet Switch
                    Command Line Interface

                  Firmware: Build 1.01.B031
         Copyright(C) 2010 D-Link Corporation. All rights reserved.
UserName:
Password:

DGS-3120-24TC:admin#ss
Available commands:
..                    ?                     cable_diag         cd
cfm                   change                clear              config
copy                  create                debug              del
delete                dir                   disable            download
enable                erase                 format             login
logout                md                    move               no
ping                  ping6                 rd                 reboot
reconfig              rename                reset              save
show                  telnet                traceroute         traceroute6
upload

DGS-3120-24TC:admin#
```

Step2. Insert SD card, then you will find it shown as drive D.

```
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info      Attr Size      Update Time          Name
--- -------   ---- --------  --------------------  ------------------
  1 RUN       -rw- 5464952   2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  2 RUN(b)    -rw- 5467716   2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  3 RUN       -rw- 5458840   2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  4 RUN(*)    -rw- 5469208   2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  5 CFG(*)    -rw- 27145     2011/02/21 11:06:41  config.cfg
  6           d--- 0         2011/02/21 11:07:34  system

29618 KB total (8140 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#
DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

No file or directory under /d:

2027124 KB total (2027092 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#
```

Step3. Copy F/W_R1.01.27 from current drive C to SD card drive D.

```
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info      Attr Size     Update Time          Name
--- -------   ---- -------- -------------------  -----------------
  1 RUN       -rw- 5464952  2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  2 RUN(b)    -rw- 5467716  2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  3 RUN       -rw- 5458840  2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  4 RUN(*)    -rw- 5469208  2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  5 CFG(*)    -rw- 27145    2011/02/21 11:06:41  config.cfg
  6           d--- 0        2011/02/21 11:07:34  system

29618 KB total (8140 KB free)
(*) -with boot up info        (b) -with backup info

DGS-3120-24TC:admin#copy c: DGS3120_Run_1_01_027.had d: DGS3120_Run_1_01_027.had

Command: copy c: DGS3120_Run_1_01_027.had d: DGS3120_Run_1_01_027.had

 Copying....................... Done!

DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info      Attr Size     Update Time          Name
--- -------   ---- -------- -------------------  -----------------
  1           -rw- 5467716  2011/02/21 11:27:12  DGS3120_Run_1_01_027.had

2027124 KB total (2021752 KB free)
(*) -with boot up info        (b) -with backup info

DGS-3120-24TC:admin#
```

Step4. Change boot_up F/W from current one stored in drive C to the one stored in drive D.

```
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info      Attr Size     Update Time          Name
--- -------   ---- -------- -------------------  -----------------
  1 RUN       -rw- 5464952  2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  2 RUN(b)    -rw- 5467716  2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  3 RUN       -rw- 5458840  2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  4 RUN(*)    -rw- 5469208  2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  5 CFG(*)    -rw- 27145    2011/02/21 11:06:41  config.cfg
  6           d--- 0        2011/02/21 11:07:34  system

29618 KB total (8140 KB free)
(*) -with boot up info        (b) -with backup info

DGS-3120-24TC:admin#config firmware image d:/DGS3120_Run_1_01_027.had boot_up

Command: config firmware image d:/DGS3120_Run_1_01_027.had boot_up

Success.
```

Step5. Confirm boot_up F/W was changed indeed.

```
DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info      Attr Size      Update Time          Name
--- -------   ---- --------  -------------------  ----------------
  1 RUN(*)    -rw- 5467716   2011/02/21 11:27:12  DGS3120_Run_1_01_027.had

2027124 KB total (2021752 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info      Attr Size      Update Time          Name
--- -------   ---- --------  -------------------  ----------------
  1 RUN       -rw- 5464952   2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  2 RUN       -rw- 5467716   2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  3 RUN       -rw- 5458840   2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  4 RUN(b)    -rw- 5469208   2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  5 CFG(*)    -rw- 27145     2011/02/21 11:06:41  config.cfg
  6           d--- 0         2011/02/21 11:07:34  system

29618 KB total (8139 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#
```

After reboot.

```
Boot Procedure                                          V1.00.009
--------------------------------------------------------------------

Power On Self Test ........................................ 100 %

MAC Address  : 1C-AF-F7-30-C9-E6
H/w Version  : A1

Please Wait, Loading V1.01.027 Runtime Image .............. 100 %
UART Init ................................................. 100 %
Starting runtime image
```

```
                    DGS-3120-24TC Gigabit Ethernet Switch
                         Command Line Interface

                         Firmware: Build 1.01.027
            Copyright(C) 2010 D-Link Corporation. All rights reserved.
UserName:
PassWord:

DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info      Attr Size      Update Time          Name
--- -------   ---- --------  -------------------  ----------------
  1 RUN(*)    -rw- 5467716   2011/02/21 11:27:12  DGS3120_Run_1_01_027.had

2027124 KB total (2021752 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info      Attr Size      Update Time          Name
--- -------   ---- --------  -------------------  ----------------
  1 RUN       -rw- 5464952   2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  2 RUN       -rw- 5467716   2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  3 RUN       -rw- 5458840   2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  4 RUN(b)    -rw- 5469208   2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  5 CFG(*)    -rw- 27145     2011/02/21 11:06:41  config.cfg
  6           d--- 0         2011/02/21 11:41:59  system

29618 KB total (8139 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#
```

Step6. Copy configuration file "config.cfg" stored in drive C to drive D and named as "test.cfg".

```
DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info     Attr Size     Update Time          Name
--- -------  ---- --------  -------------------  -----------------
  1 RUN(*)   -rw- 5467716   2011/02/21 11:27:12  DGS3120_Run_1_01_027.had

2027124 KB total (2021752 KB free)
(*) -with boot up info         (b) -with backup info

DGS-3120-24TC:admin#
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info     Attr Size     Update Time          Name
--- -------  ---- --------  -------------------  -----------------
  1 CFG(*)   -rw- 27145     2011/02/21 11:45:51  config.cfg
  2 RUN      -rw- 5464952   2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  3 RUN      -rw- 5467716   2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  4 RUN      -rw- 5458840   2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  5 RUN(b)   -rw- 5469208   2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  6          d--- 0         2011/02/21 11:41:59  system

29618 KB total (8140 KB free)
(*) -with boot up info         (b) -with backup info

DGS-3120-24TC:admin#copy c: config.cfg d: test.cfg
Command: copy c: config.cfg d: test.cfg

 Copying.......................... Done!

DGS-3120-24TC:admin#
DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info     Attr Size     Update Time          Name
--- -------  ---- --------  -------------------  -----------------
  1 RUN(*)   -rw- 5467716   2011/02/21 11:27:12  DGS3120_Run_1_01_027.had
  2          -rw- 27145     2011/02/21 11:47:58  TEST.CFG

2027124 KB total (2021724 KB free)
(*) -with boot up info         (b) -with backup info
```

Step7. Change boot_up configuration from current one "config.cfg" stored in drive C to "test.cfg" stored in drive D.

```
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info      Attr Size      Update Time          Name
                                                            -----
  1 CFG(*)   -rw- 27145     2011/02/21 11:45:51  config.cfg
  2 RUN      -rw- 5464952   2010/12/20 18:30:21  DGS3120_Run_1_01_B24.had
  3 RUN      -rw- 5467716   2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  4 RUN      -rw- 5458840   2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  5 RUN(b)   -rw- 5469208   2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  6          d--- 0         2011/02/21 11:41:59  system

29618 KB total (8140 KB free)
(*) -with boot up info           (b) -with backup info

DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info      Attr Size      Update Time          Name
--- ------- ---- --------  ------------------- ----------------
  1 RUN(*)   -rw- 5467716   2011/02/21 11:27:12  DGS3120_Run_1_01_027.had
  2          -rw- 27145     2011/02/21 11:47:58  TEST.CFG

2027124 KB total (2021724 KB free)
(*) -with boot up info           (b) -with backup info

DGS-3120-24TC:admin#config configuration d:/TEST.CFG boot_up
Command: config configuration d:/TEST.CFG boot_up

Success.
```

```
DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info      Attr Size      Update Time          Name
--- ------- ---- --------  ------------------- ----------------
  1 RUN(*)   -rw- 5467716   2011/02/21 11:27:12  DGS3120_Run_1_01_027.had
  2 CFG(*)   -rw- 27145     2011/02/21 11:47:58  TEST.CFG

2027124 KB total (2021724 KB free)
(*) -with boot up info           (b) -with backup info

DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info      Attr Size      Update Time          Name
--- ------- ---- --------  ------------------- ----------------
  1 CFG(b)   -rw- 27145     2011/02/21 11:45:51  config.cfg
  2 RUN      -rw- 5464952   2010/12/20 18:30:21  DGS3120_Run_1_01_B24.had
  3 RUN      -rw- 5467716   2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  4 RUN      -rw- 5458840   2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  5 RUN(b)   -rw- 5469208   2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  6          d--- 0         2011/02/21 11:41:59  system

29618 KB total (8139 KB free)
(*) -with boot up info           (b) -with backup info

DGS-3120-24TC:admin#
```

It will take effect after reboot.

Appendix.

#1. Delete designate file from designate drive.

```
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info     Attr Size     Update Time          Name
--- -------- ---- -------- -------------------- ----------------
  1 CFG(b)   -rw- 27145    2011/02/21 11:45:51  config.cfg
  2 RUN      -rw- 5464952  2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  3 RUN      -rw- 5467716  2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  4 RUN      -rw- 5458840  2010/12/07 18:35:21  DGS3120_Run_1_00_026.had
  5 RUN(b)   -rw- 5469208  2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  6          d--- 0        2011/02/21 11:41:59  system

29618 KB total (8139 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#
DGS-3120-24TC:admin#del c:/DGS3120_Run_1_00_026.had
Command: del c:/DGS3120_Run_1_00_026.had

Success.

DGS-3120-24TC:admin#
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info     Attr Size     Update Time          Name
--- -------- ---- -------- -------------------- ----------------
  1 CFG(b)   -rw- 27145    2011/02/21 11:45:51  config.cfg
  2 RUN      -rw- 5464952  2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  3 RUN      -rw- 5467716  2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  4 RUN(b)   -rw- 5469208  2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  5          d--- 0        2011/02/21 11:41:59  system

29618 KB total (13471 KB free)
(*) -with boot up info          (b) -with backup info

DGS-3120-24TC:admin#
```

Please notice that the command is "del", not "delete".
F/W R1.00.026 disappeared from drive C.

#2. Copy F/W R1.01.027 from SD card back to drive C and named as "abc.had".

```
DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info     Attr Size     Update Time          Name
--- -------- ---- -------- -------------------- -----------------
  1 CFG(b)   -rw- 27145    2011/02/21 11:45:51  config.cfg
  2 RUN      -rw- 5464952  2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  3 RUN      -rw- 5467716  2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  4 RUN(b)   -rw- 5469208  2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  5         d--- 0        2011/02/21 11:41:59  system

29618 KB total (13471 KB free)
(*) -with boot up info         (b) -with backup info

DGS-3120-24TC:admin#
DGS-3120-24TC:admin#dir d:
Command: dir d:

Directory of /d:

Idx Info     Attr Size     Update Time          Name
--- -------- ---- -------- -------------------- -----------------
  1 RUN(*)   -rw- 5467716  2011/02/21 11:27:12  DGS3120_Run_1_01_027.had
  2 CFG(*)   -rw- 27145    2011/02/21 11:47:58  TEST.CFG

2027124 KB total (2021724 KB free)
(*) -with boot up info         (b) -with backup info

DGS-3120-24TC:admin#
DGS-3120-24TC:admin#copy d:/DGS3120_Run_1_01_027.had c:/abc.had
Command: copy d:/DGS3120_Run_1_01_027.had c:/abc.had

Copying.......................... Done!

DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info     Attr Size     Update Time          Name
-                                                      --------
  1 RUN(b)   -rw- 5467716  2011/02/21 12:01:55  abc.had
  2 CFG(b)   -rw- 27145    2011/02/21 11:45:51  config.cfg
  3 RUN      -rw- 5464952  2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  4 RUN      -rw- 5467716  2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  5 RUN      -rw- 5469208  2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
```

#3. Copy configuration file "test.cfg" from SD card back to drive C and named as "testtest.cfg".

```
DGS-3120-24TC:admin#copy d:/test.cfg c:/testtest.cfg
Command: copy d:/test.cfg c:/testtest.cfg

Copying.......................... Done!

DGS-3120-24TC:admin#dir c:
Command: dir c:

Directory of /c:

Idx Info     Attr Size     Update Time          Name
-                                                      ---
  1 CFG(b)   -rw- 27145    2011/02/21 12:06:18  testtest.cfg
  2 RUN(b)   -rw- 5467716  2011/02/21 12:01:55  abc.had
  3 CFG      -rw- 27145    2011/02/21 11:45:51  config.cfg
  4 RUN      -rw- 5464952  2010/12/20 18:50:21  DGS3120_Run_1_01_B24.had
  5 RUN      -rw- 5467716  2011/01/06 18:31:53  DGS3120_Run_1_01_027.had
  6 RUN      -rw- 5469208  2011/02/21 10:49:50  DGS3120_Run_1_01_B031.had
  7         d--- 0        2011/02/21 11:41:59  system

29618 KB total (8102 KB free)
(*) -with boot up info         (b) -with backup info

DGS-3120-24TC:admin#
```