Firmware Version: v2.00.009
PROM Code Version: v1.00.013
Code Published: Sep 30, 2010

These release notes include important information about firmware revisions of D-Link switches. Please confirm that these release notes are appropriate for your switch:

- If you are installing a new switch, please check the hardware version on the device label and make sure that your switch meets the system requirements of this firmware version. Please refer to Revision History and System Requirements for detailed firmware and hardware matrix.
- If the switch is powered on, you can check the hardware version by typing "show switch" command or browse the device information page on the web graphical user interface.
- If you plan to upgrade to the new firmware release, refer to Upgrade Instructions for the correct firmware upgrade procedure.

For more detailed information regarding D-Link switches, refer to Related Documentation.
To download the latest switch firmware, D-View modules and technical documentation go to http://tsd.dlink.com.tw.

Table Of Contents

dlink green

Revision History and System Requirements

Firmware Version	Date	Model	Hardware Version
Runtime: v2.00.009 PROM: v1.00.013	30-Sep-09	DES-3810-28	A1
Runtime: v1.00.B039 PROM: 1.00.B010	6-Jan-10	DES-3810-28	A1

Upgrade Instructions

D-Link switches support firmware upgrades via FTP/TFTP/RCP server or HTTP. To download the latest firmware, go to http://tsd.dlink.com.tw, and copy the downloaded firmware to the server folder. Ensure that the switch can access the server.

Here is an example on how to download the firmware from a TFTP server.

Upgrade using CLI (serial port)

Connect a workstation to the switch console port and run any terminal program that can emulate a VT-100 terminal. The switch serial port default settings are as follows:
- Baud rate: **115200**
- Data bits: **8**
- Parity: **None**
- Stop bits: **1**

The switch will prompt the user to enter his/her username and password. It should be noted that upon the initial connection, there is no username and password by default.

To upgrade the switch firmware, execute the following commands:

Command	Function
`download [[firmware_fromTFTP	cfg_fromTFTP] [<ipaddr>	<ipv6addr>] src_file <path_filename 64> {dest_file <path_filename 64>}`	Downloads the firmware file from the TFTP server to the switch.
`config firmware image <path_filename 64> boot_up`	Changes the boot up image file.
`dir`	Displays the information of current boot image and configuration.
`reboot`	Reboots the switch.

Note: On firmware v2.00.009 or previous version, the driver ID of destination file should be in lowercase, for example **c:/**.

Example:

1. **DES-3810-28: admin#download firmware_fromTFTP 172.17.5.26 src_file d:\R2_00_009.had dest_file c:/R2.00.009.had**
   Command: download firmware_fromTFTP 172.17.5.26 src_file d:\R2_00_009.had dest_file c:/R2.00.009.had

   Connecting to server.................. Done.
   Download firmware..................... Done. Do not power off!
   Please wait, programming flash........ Done.

2. **DES-3810-28: admin#config firmware image c:/R2.00.009.had boot_up**
   Command: config firmware image c:/R2.00.009.had boot_up

```
Success.
```

3. **DES-3810-28: admin#dir**
   ```
   Command: dir

   Directory of c:/:
    Idx Info    Attr Size     Update Time        Name
    --- ------- ---- -------- ------------------ ----
      1 RUN(*)  -rw- 5104548  2010/11/10 14:24:03 R2.00.009.had
      2 RUN(b)  -rw- 4803216  2010/11/10 13:41:45 R100B039.had
      3       d---          2010/11/10 10:46:15 system
   30576 KB total (20719 KB free)

    (*) -with boot up info       (b) -with backup info
   ```

4. **DES-3810-28: admin#reboot**
   ```
   Command: reboot

   Are you sure you want to proceed with the system reboot?(y/n) y
   Please wait, the switch is rebooting...
    Boot Procedure                            V1.00.B011
   --------------------------------------------------------------------------------

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

    MAC Address  : 00-22-B0-2C-44-00
    H/W Version  : A1

    Please Wait, Loading V2.00.009 Runtime Image ............. 100 %
   UART init ................................................ 100 %
   Device Discovery ......................................... 100 %
   Device Discovery ......................................... 100 %
   ```

Upgrade using Web-UI

1. Connect a workstation installed with Java SE runtime environment to any switch port of the device.
2. Open the web browser on the workstation and enter the IP address of the switch. The switch's default IP address is **10.90.90.90**.
3. Enter the administrator's username and password when prompted.
   Note: The username and password are blank by default.
4. To update the switch's firmware or configuration file, select **Tools > Download Firmware** from the Tools menu.
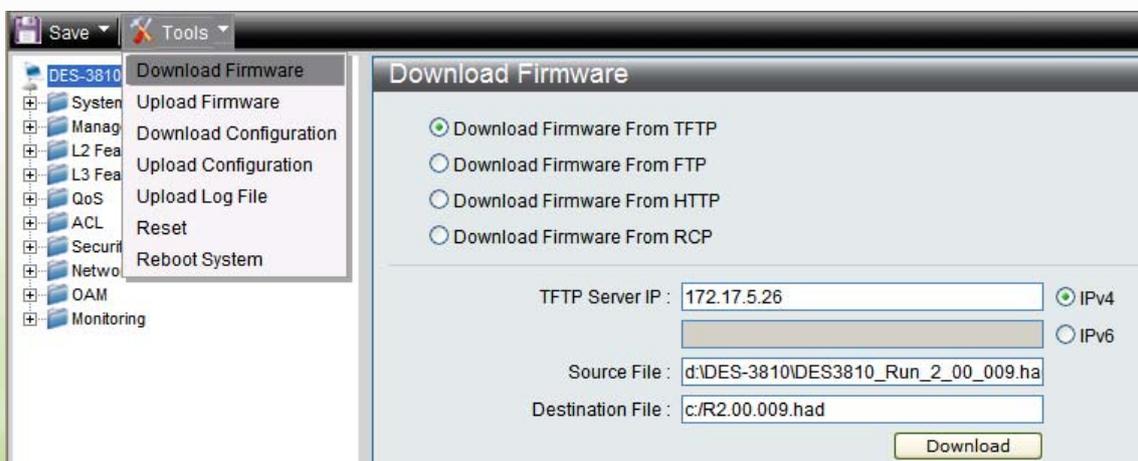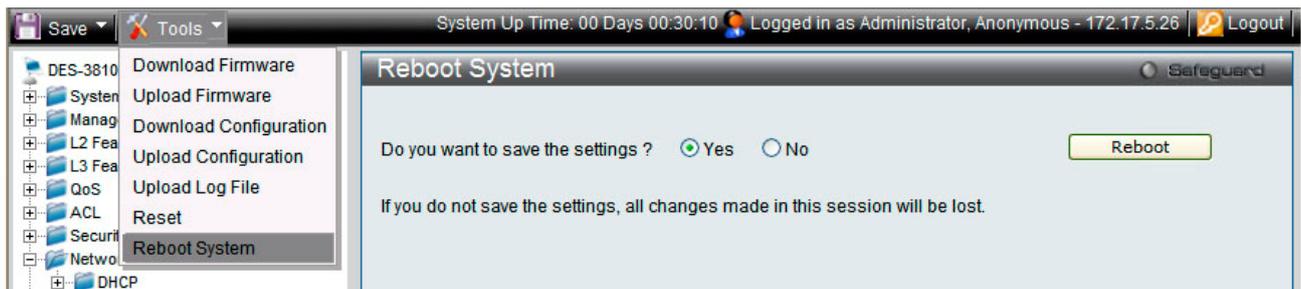
5. Enter the TFTP Server IP address.
6. Enter the path and file name of the firmware file located on the TFTP server.
7. Enter the path and file name of the firmware you would like to store in the switch.
8. Click **Download**.
9. Wait until the File Transfer status reaches 100% and the Program Firmware status shows "completed".
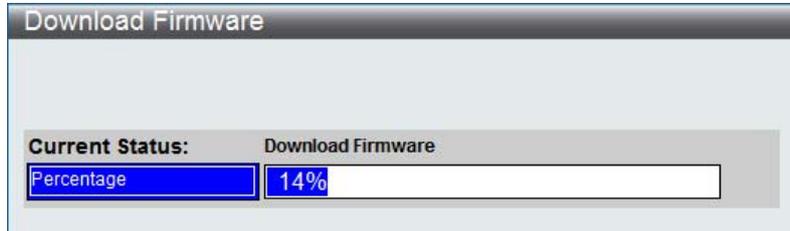
10. To select the boot up image for the next reboot, click **Network Application > Flash File System Settings** in the function tree. Click the corresponding **Boot Up** button to specify the firmware that will be used for the next and subsequent boot up.
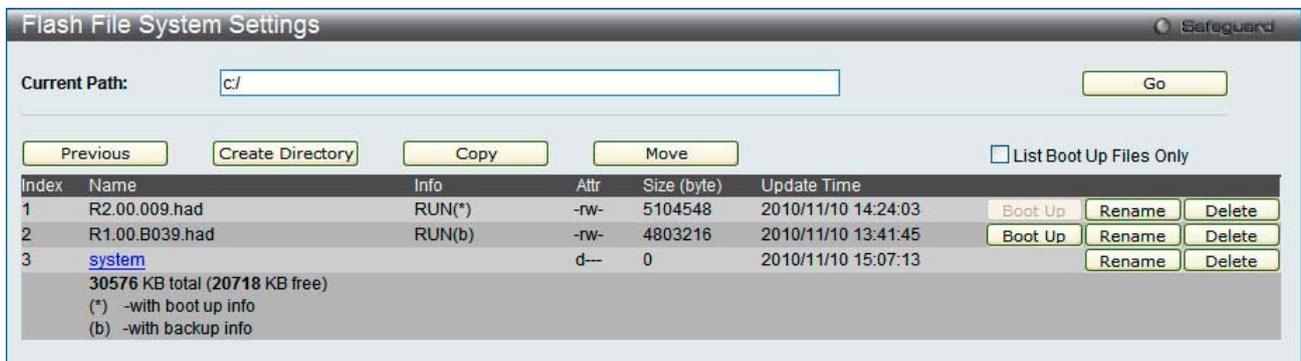
11. To reboot the switch, select **Tools > Reboot System** from the Tools menu.
12. Select **Yes** and click **Reboot** to reboot the switch.

New Features

Firmware Version	New Features

V2.00.009	1. VRRP
	2. RIPv1/v2
	3. OSPFv2
	4. Route preference settings for:
	   - IPv4 Static Route
	   - RIP
	   - OSPF
	5. Route redistribute settings for:
	   - IPv4 Static Route
	   - RIP
	   - OSPF
	6. Enlarged table sizes for:
	   - IPv4 interface from 128 to 256
	   - ARP table from 3072 to 3575
	   - ND table from 1024 to 1821
	   - IPv4 L3 FDB from 3072 to 3575, IPv6 L3 FDB from 1024 to 1821
	   - Historical performance monitoring database from 5 to 96 entries
	7. Modified the storm control minimum granularity of FE ports from 640pps to 500pps.

v1.00.B039	This version is the first Release. For supported features, please refer to the product specification and manuals for details.

Changes to MIB & D-View Module

New MIB file features are included in the corresponding D-View module. Go to http://tsd.dlink.com.tw to download the D-View module.

For detailed changes to MIB content, please refer to the modification history in each MIB file, as shown below:

Firmware Version	MIB File	New Features
v2.00.009	rfc2787.mib	1. New MIB supports VRRP function
	rfc1724.mib	1. New MIB supports RIPv1/v2 function
	rfc1850.mib	1. New MIB supports OSPFv2 function
	L3mgmtDES3810-28.mib	1. New route redistribution settings has been added to the existing MIB file 2. New route preference settings has been added to the existing MIB file
	HistoryCnt.mib	1. Enlarged performance monitoring database from 5 to 96 entries
v1.00.B039	This version is the first release. Please refer to the datasheet for supported SNMP MIB files.	

Changes to the Command Line Interface

The table below only shows the command line changes that may bring backward compatibility issues with configuration settings for the previous firmware version. This table does not include any new feature commands that do not have backward compatibility issues.
The switch automatically transfers old commands to the new commands when the configuration files are applied as running configuration. If the old parameters exceed the new command range, then the switch uses the default value instead.

Firmware Version	Changes
v2.00.009	None
v1.00.B039	This version is the first release.

Resolved Issues

Firmware Version	Problems Fixed
v2.00.009	1. There is no way to enter the SIM Group Name via D-view module. 2. D-View module does not auto-refresh the show table when adding/deleting ARP Spoofing Prevention entries. 3. After enabling/disabling STP several times and keeping pressing the "refresh" button, D-View module becomes inaccessible.
v1.00.B039	This version is the first release.

Known Issues

Firmware Version	Issues	Workaround
V2.60.017	When the DHCP server is enabled, ACL cannot deny the DHCP discovered packets.	Use DHCP server screening function to discard the DHCP offer packets from rogue DHCP servers to prevent clients from getting an illegal IP address.
v1.01.B030	The bandwidth is inaccurate in the first second of the traffic transmission, almost twice the configured value. (Usually, the Bandwidth Control and ACL Flow meter settings require one second to take effect.)	This version has been resolved in v1.01.B035 or above.

Related Documentation

- DES-3810 Web UI Reference Guide
- DES-3810 CLI Reference Guide
- DES-3810 Hardware Installation Guide