



Firmware Version: v2.20.010
PROM Code Version: v2.00.004
Code Published: Mar 19, 2012

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>.

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Revision History and System Requirements

Firmware Version	Date	Model	Hardware Version
Runtime: v2.20.010 PROM: v2.00.004	19-Mar-12	DES-3810-28 DES-3810-52 DES-3810-28-SE-LIC DES-3810-52-SE-LIC	A1
Runtime: v2.10.024 PROM: v2.00.004	22-Aug-11	DES-3810-28 DES-3810-52	A1
Runtime: v2.00.009 PROM: v1.00.013	30-Sep-10	DES-3810-28	A1
Runtime: v1.00.B039 PROM: v1.00.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.

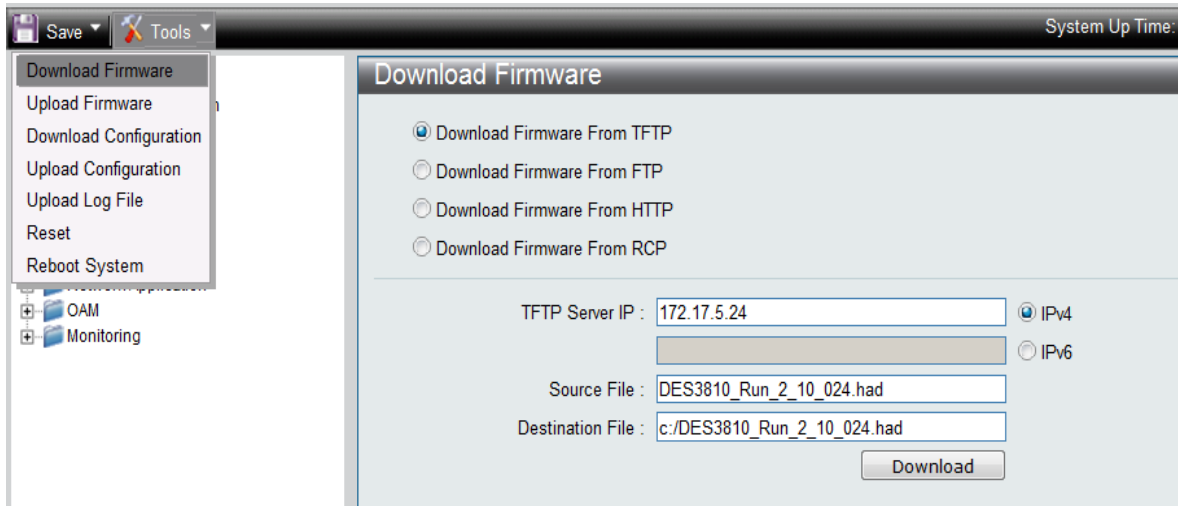
To upgrade the switch firmware, execute the following commands:

Command	Function
download [[firmware fromTFTP cfg fromTFTP] [<ipaddr> <ipv6addr>]="" <path="" 64>="" 64>}]<="" file="" filename="" src="" td="" {dest="" =""> <td>Downloads the firmware file from the TFTP server to the switch.</td> </ipaddr>>	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.

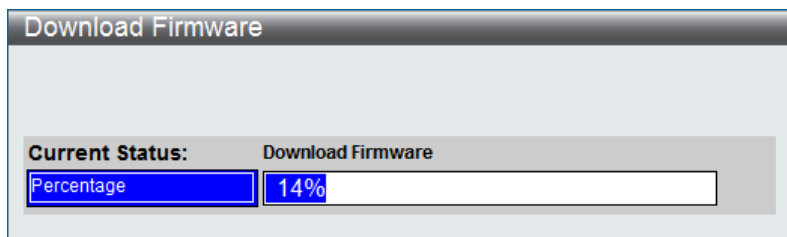
Note: On firmware v2.00.009 or previous version, the driver ID of destination file should be in lowercase, for example **c:/**.

Example:

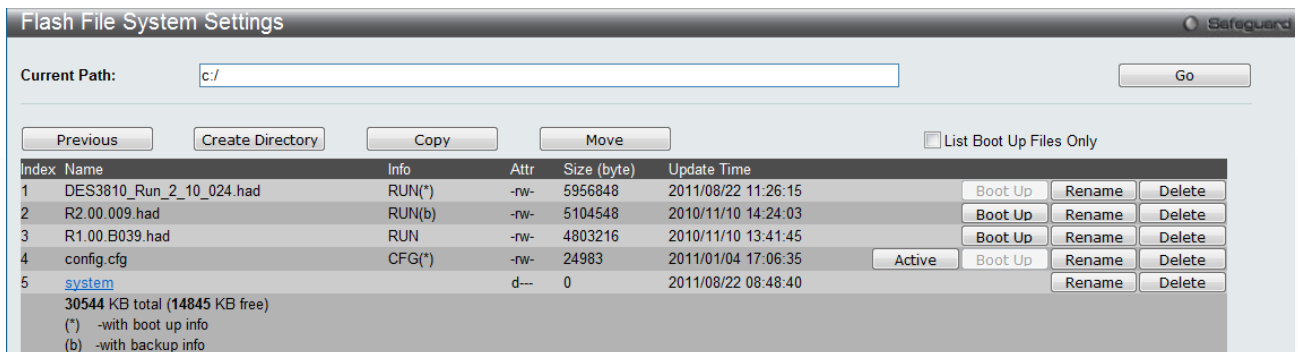
1. **DES-3810-28:** admin#download firmware_fromTFTP 172.17.5.26 src_file DES3810_Run_2_10_024.had dest_file c:/DES-3810R2.1.had
Command: download firmware_fromTFTP 172.17.5.26 src_file DES3810_Run_2_10_024.had dest_file c:/DES-3810R2.1.had



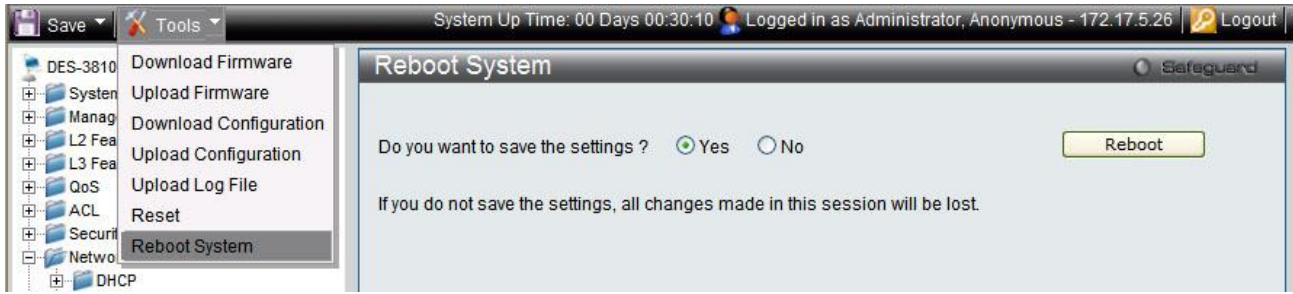
5. Enter the TFTP Server IP address.
6. Enter the path and file name of the firmware file located on the TFTP server.
7. Enter the path and file name of the firmware you would like to store in the switch.
8. Click **Download**.
9. Wait until the File Transfer status reaches 100% and the Program Firmware 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.



- To reboot the switch, select **Tools > Reboot System** from the Tools menu.
11. Select **Yes** and click **Reboot** to reboot the switch.



New Features

Firmware Version	New Features
V2.20.010	<ol style="list-style-type: none"> 1. RIPng 2. DHCP Server support option 60, 82 3. DNS Relay Support attributes: <ul style="list-style-type: none"> - MX, NS, CNAME, AAAA, TXT, SOA, ANY (relay-only) 4. Ping & Traceroute MIB <ul style="list-style-type: none"> - can configure the frequency of ping 5. SSH for IPv6 6. Support DLMS Activation Code (AC) input to unlock corresponding features 7. JWAC <ul style="list-style-type: none"> - Identity driven security policy assignment: Can assign ACL to the port based on the attributes dispatched from the RADIUS server. 8. LBDv4.04
V2.10.024	<ol style="list-style-type: none"> 1. Support new model DES-3810-52 2. Y.1731 3. IGMP v1/v2/v3 4. PIM SM/DM/SDM and PIM SSM(Source-Specific Multicast) 5. Multiple Ring ERPS 6. L2PT support MAC type: 01000CCCCCCC, 01000CCCCCDD 7. Loopback Interface (IPv4 only) 8. IPv6 Tunneling 9. Enlarge OSPF ECMP to 8 per route 10. Route Preference configuration for IPv6 Static Route 11. DVMRP 12. Egress ACL 13. IMPB support IPv6 address 14. IPv6 ND Snooping/DHCPv6 Snooping 15. RADIUS server support IPv6 address 16. DULD (D-Link Unidirectional Link Detection) 17. DHCPv6 Relay 18. Microsoft NLB (IPv4 only) 19. IPv6 Traceroute 20. 802.1X: ACL assignment after successful authentication 21. Web-based Access Control (WAC) : ACL assignment after successful authentication 22. MAC-based Access Control (MAC) : Identity driven security policy assignment which can based on the attributes dispatched from the RADIUS server 23. D-Link Green 3.0: <ul style="list-style-type: none"> - Power Saving by LED Shut-Off - Power Saving by Port Shut-Off - Power Saving by System Hibernation 24. LDP (Label Distribution Protocol) 25. MPLS L2 VPN (VPWS) 26. SRM (Switch Resource Management) 27. Upgrade PROM code for <ul style="list-style-type: none"> - extend the filename length of file system from 32bytes to 64 bytes. - change the file name from case sensitive to case insensitive
V2.00.009	<ol style="list-style-type: none"> 1. VRRP 2. RIPv1/v2 3. OSPFv2 4. Route preference settings for: <ul style="list-style-type: none"> - IPv4 Static Route

	<ul style="list-style-type: none">- RIP- OSPF <p>5. Route redistribute settings for:</p> <ul style="list-style-type: none">- IPv4 Static Route- RIP- OSPF <p>6. Enlarged table sizes for:</p> <ul style="list-style-type: none">- 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 <p>7. Modified the storm control minimum granularity of FE ports from 640pps to 500pps.</p>
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
V2.20.010	RIPng.mib	New MIB supports RIPng
	DLMS.mib	New MIB supports DLMS
	DHCPserver.mib	Update DHCP Server MIB to support Option 60,82
	RFC2925.mib	Update Ping & Traceroute MIB with configuring the frequency of ping
	SSH.mib	Update SSH MIB to support SSH for IPv6
V2.10.024	L3mgmtDES3810-28.mib L3mgmtDES3810-52.mib	MIB supports Loopback interface
	IGMPv3.mib	New MIB supports IGMPv1/v2/v3
	DVMRP.mib	New MIB supports DVMRP
	PIM-SM.mib RFC.2932.mib RFC-2934.mib	New MIB supports PIM-SM
	DULD.mib	New MIB supports DULD
	CFMEXTENSION.mib	New MIB supports Y.1731
	RFC4087.mib	New MIB supports IPv6 Tunneling
	DHCPv6Relay.mib	New MIB supports DHCPv6 relay
	NLB.mib	New MIB supports Microsoft NLB
	MPLS-LSR-STD-MIB.MIB MPLS-FTN-STD-MIB.MIB MPLS-LDP-STD-MIB.MIB MPLS-LDP-GENERIC-STD-MIB.MIB	New MIB supports MPLS Label Management
	PW-STD-MIB.MIB PW-MPLS-STD-MIB.MIB PW-ENET-STD-MIB.MIB	New MIB supports MPLS L2 VPN (VPWS)
	EgressACL.mib	New MIB supports Egress ACL
	SwitchResourceMgmtDES3810-28.mib SwitchResourceMgmtDES3810-52.mib	New MIB supports SRM (Switch Resource Management)
	erps.mib	Update MIB to support ERPS maximum 4 rings and 160 node per ring
	L2ProtocolTunnel.mib	Update MIB to support L2PT:Protocol MAC Type: 01000CCCCCCC, 01000CCCCCDD
	RFC2925.mib	Update MIB to support IPv6 TraceRoute
	IPMacBind.mib	Update MIB to support IMPBv6,IPv6 ND Snooping/DHCPv6 Snooping
	Auth.mib	Update MIB to support IPv6 RADIUS server

	Equipment.mib	Update MIB to support Green Ethernet 3.0
v2.00.009	rfc2787.mib	New MIB supports VRRP function
	rfc1724.mib	New MIB supports RIPv1/v2 function
	rfc1850.mib	New MIB supports OSPFv2 function
	L3mgmtDES3810-28.mib	<ol style="list-style-type: none"> 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	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
V2.20.010	Change default setting of DDM port shutdown action from shutdown to none
V2.10.024	None
v2.00.009	None
v1.00.B039	This version is the first release.

Resolved Issues

Firmware Version	Problems Fixed
V2.20.010	<ol style="list-style-type: none"> 1. Android device can not be authenticated by JWAC (DI20110303000004-Japan)
V2.10.024	None
v2.00.009	<ol style="list-style-type: none"> 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
V2.20.010	Although IMPB's ACL has lower priority, it still takes effect and overrides user-defined ACL.	None, It's chip limitation.
V2.10.024	None	None
V2.00.009	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.
v1.00.B039	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

For the latest document, go to <http://tsd.dlink.com.tw> to download the latest version.