

HowTo: Smart Switches support firmware upgrade

Upgrade Instructions:

Firmware upgrade via TFTP server. You can download the firmware from D-Link web site <u>http://ww.dlink.com/de/de</u>, <u>http://www.dlink.com/be/fr</u>, <u>http://www.dlink.com/be/nl</u>, <u>http://www.dlink.com/nl/nl</u> and copy the downloaded firmware to the TFTP server folder. Please make sure that the TFTP server is accessible from the switch via networks.

Upgrade using CLI (via Telnet)

 Make sure the network connection between the switch and PC is active.
Use software that supports telnet, for example, HyperTerminal or Telnet command in Microsoft Windows, to connect to the switch. If you are using Telnet command, type the command followed by the switch IP address, eg. *telnet* **10.90.90.90**.
The logon prompt will appear.

The switch will prompt the user to enter his/her username and password. It should be noted that upon the initial connection, both the default user name and password are **admin**.

To upgrade the switch firmware, execute the following command:

Command	Function
download{firmware_fromTFTP tftp://ip- address/filename cfg_fromTFTP tftp://ip- address/filename}	Download firmware file from the TFTP server to the switch.

When completing firmware upgrade, the following messages will pop up. Device will reboot after firmware upgraded successfully Image upgraded successfully

Command	Function
show switch	Display the information of current firmware and boot version.
Example: 1. DGS-1210-28: Command: download firmware_fromTFTP tftp: Device will reboot after firmware upgraded success Image upgraded successfully	//10.90.90.91 DGS-1210-28-C1-4-00-012hex sfully
2. DGS-1210-28: Command: show switch DGS-1210-28> show switch System name System Contact System Location System up time System Time System hardware version System firmware version System boot version System serial number MAC Address	: : : 0 days, 0 hrs, 36 min, 56 secs : 01/01/2013 01:01:55 : C1 : 4.00.012 : 1.00.005 : 1MB1733K0000A : 00-87-87-AB-88-77



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 from the workstation and enter the IP address of the switch. The switch's default IP address is **10.90.90.90**.
- 3. Enter administrator's password when prompted. The password is **admin** by default.
- 4. To update switch's firmware or configuration file, select *Tools > Firmware Backup & Upgrade* from the banner.

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	Res	et				
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÷)	Firm	iwai	re Ba	ickup & I	Upgr	ade

5. Two methods can be selected : HTTP or TFTP

Firmware Backup and Upgrade		0 Eafeguard
НТТР		
Backup firmware to file :	Backup	
Libgrade firmware from file (Browse
	(upgrade)	
O TEPP		
TFTP Server IP Address		
TETP File Name		
Backup firmware to file :	(flackup)	
Upgrade firmware from file :	(Upgrade)	

- 6. Select **HTTP** to upgrade the firmware to or from your local drive of PC.
 - a. Click **Browse** to browse your inventories for a saved firmware file
 - b. Click Upgrade after selecting the firmware file you want to restore
 - c. Click OK to continue with firmware upgrade



d. Click OK to continue with firmware upgrade





e. Wait until the "Firmware Upgrade Successful" message pops up and login again after device boots up.



- 7. Select **TFTP** to upgrade the firmware to or from a remote TFTP server.
 - a. Enter the name of the firmware file located on the TFTP server
 - b. Click Upgrade after selecting the firmware file you want to restore
 - c. Click OK to continue with firmware upgrade



d. Wait until the firmware upgrade ends and login again after device boots up.





Upgrade using D-Link Network Assistant

1. Connect a workstation installed with java SE runtime environment to any switch port of the device

2. Execute **D-Link Network Assistant**



3. Click Refresh button to search target switch

D D-Link Net	work Assistant								_ 🗆 ×
	Common Adv	anced		ala		_			
		MP	S			G	C		
Device Settings	Time Settings	SNMP	Firmwar Upgrada	e Backup or e Restore	ł	Reboot	Reset		
Device List	Alarms(0)								
Device L	ist					📿 Refres	Search		0
🗖 Status	Model Name	Product Type	Device Name	MAC	IP∨4	IP∨6	Device Time	Interface	FW Version
	DGS-1210-28	Switch		00:08:37:12:28:00	10.90.90.9	90	2013/1/1 上午 12:39:41	Port 9	4.00.010



4. Single click the icon of the column to choose the target switch

D-Link Net	work Assistant								- 🗆 🗙
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Device Settings	Time Settings	SNMP	Firmware Up <i>g</i> rade	Backup or Restone		Reboot	Reset		
Device List	Alarms(0)								
Device L	ist					Ø Refres	Search		۹,
🔽 Status	Model Name	Product Type	Device Name	MAC	IP∨4	IPv6	Device Time	Interface	FW Version
	DGS-1210-28	Switch		00:08:37:12:28:00	10.90.9	0.90	2013/1/1 上午 12:4	0:06 Port 9	4.00.010
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5. Click Firmware Upgrade button

Version
0.010
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6. Select PC IP address is used to connect the target switch, then click Browse button and select the firmware file (Model name_HW ver._FW ver. .hex) on your local hard drive.

firmware Upgrade		
Firmware Upgrade	:	Confirm Summary
FTP IP	10.90.90.80	
pgrade Selection	€ Use one firmware file for all devices	C Use a different finnware file for each device
	D:\Smart5\DGS-1210-28-C1-4-00-011.hex	Bowse
		Next



7. Click the checkbox and click "Submit" button to start firmware upgrade.

Firm	ware Upgrade				2 Confirm Summary
TFIP	• IP	10.90.90.80	Fim	nwane File D:%m	art5\DGS-1210-28-C1-4-00-011 hex
App	ly to All Dev:	ces			
sSuj	Model Name		MAC	IPv4	Serial N umber
es	DGS-1210-28		00:08:37:12:28:00	10.90.90.90	QBDGS12102800
Notifi	ication ———				Authentication
Notifi Wa you You	ication aming : Do not d recoverable dame ur devices may re I understand the	isconnect the net ge to the devices boot. risks	work or close this pro may result. Please no	ogram during the upgrad lote that during the upgra	Authentication

8. Once the message changed to success, click "Close" button to complete and exit the firmware upgrade

1 Firm	ware Upgrade			Confirm Summary		
Result					Search	۹
Result	Model Name	MAC	IP∨4	Details		
S	DGS-1210-28	00:01:02:03:04:05	10.90.90.90	Command has been succesful	ly executed: {0}	
						Close