

## How to Upgrade Firmware with TFTP Server

This is a guide to upgrade the firmware using a tftp server. System Requirements: IE9 or above (We Recommend you use Internet Explorer) Putty tftp Server Console cable

First we need to download the latest firmware. You can do this by going to our ftp site shown below:

ftp://ftp.dlink.eu/Products/dgs/dgs-1510/driver\_software/

Download the latest firmware file, unzip it and store it in a safe place.

## **Create A User:**

To enable us to upgrade the firmware, we will need to create an admin user with the correct privileges.

Connect PC / Laptop to switch using the console cable. Once connected, open Putty, click on "Serial" and enter the following information:

- Session	Options controlling	local serial lines
<ul> <li>Logging</li> <li>Terminal</li> <li>Keyboard</li> <li>Bell</li> <li>Features</li> <li>Window</li> <li>Appearance</li> <li>Behaviour</li> <li>Translation</li> <li>Selection</li> <li>Colours</li> <li>Connection</li> <li>Data</li> <li>Proxy</li> <li>Telnet</li> <li>Rlogin</li> <li>Selit</li> <li>Serial</li> </ul>	Select a serial line Serial line to connect to Configure the serial line Speed (baud) Data bits Stop bits Parity Flow control	COM1 115200 8 1 None • None •

When entered, click on "Session"



Reputty Configuration			
Category:			
Session	Basic options for your PuTT	Y session	
Logging	Specify the destination you want to co	onnect to	
🖻 Terminal	Serial line	Speed	
Keyboard	COM1	115200	
Bell	Constant	113200	
	Connection type:     Raw      Telnet      Riogin	SSH @ Serial	
Appearance	O'name O'nogin O	Son Sonar	
Behaviour	Load, save or delete a stored session		
- Translation	Saved Sessions		
Selection	Switch1		
Colours ⊡- Connection	Default Settings Serial COM1	Load	
- Data	Switch1	Save	
Proxy	okok		
Telnet		Delete	
Riogin			
Serial	TREE AND D		
	Close window on exit:	on clean evit	
	O Aways O Never O Only (	on clean ext	
-			
About	Open	Cancel	
Type a name in "Saved	Sessions" – Click on "Save" th	nen "Load"	
P COM1 - PuTTY	a front last a		5 23
			- 14
DGS-	1510-28P Gigabit Ethernet Sma:	rtPro Switch	
	Command Time Tatasfine		
	Firmware: Build 1.00.03	1	
Copyright (C	) 2014 D-Link Corporation . A	ll rights reserved.	
Switch>			

You should see the above screen. Type the following commands followed by enter key:



Switch>enable Switch#configure terminal Switch(config)#username admin privilege 15 Switch(config)#username admin password admin Switch(config)#

🚱 COM1 - PuTTY 📃 💻 🖳	×
DGS-1510-28P Gigabit Ethernet SmartPro Switch	
Command Line Interface	
Firmware: Build 1.00.031	
Copyright(C) 2014 D-Link Corporation . All rights reserved.	
Switch>enable	
Switch#configure terminal	
Switch(config)#username admin privilege 15	
Switch(config)#username admin password admin Switch(config)#[]	

The above screen should be present after all commands have been executed.

The next stage is to configure the tftp server. Open a tftp server and configure as follows:

erver interfa	ices	127.0	).0.1	Software L		now Di
Tftp Server	Tftp	' Client	DHCP server	Syslog server	Log viewer	İ.
peer		[]	file	start time	progress	

Leave the "Current Directory" as Default – In this example the default is: C:\Program Files\Tftpd32 (here is where you need to put the firmware file) "Server interfaces" you can leave as 127.0.0.1 (this is the local machine)



	00/www./login.html		0 7 6 6 10 00 00 00	
Type in the IP of	f the DGS-1510-	28P – In this exa	mple: 10 90 90 90 –	then hit enter key.
Connect to 10.9	90.90.90			
		I.S.	10	
User Name	admin			
Password	••••			
Language	English			
	Login	Reset		

When complete, go to your web browser (we recommend IE)

Once logged in – go to "Tools" – "Firmware Upgrade & Backup" – "Firmware Upgrade from TFTP"



You should see the below screen

## Create A User:



D-Link Building Networks for People	Link SwartPac Swrtch novie Link Console Di Accionation Console Di Accionation Console Di Accionation Console Di Accionation Console Di Accionation Console Di Accionationation Console Di Accionationationation Console Di Accionationation Console Di Accionationation Console Di Accionationation Console Di Accionationation Console Di Accionationation Console Di Accionationationation Console Di Accionationationation Console Di Accionationationation Console Di Accionationationation Console Di Accionationationation Console Di Accionationationation Console Di Accionationation Console Di Accionationationation Console Di Accionationationationationationationationat			VOODS LINK Act	Refresh Interval 10 secs 🔽 ed in as: Administrator, 🎾 Logout
Fuzzy Search DGS-1510-28P System Management L2 Features C3 Features C4 CL Security C4 CAM Security Gamen Green	Firmware Upgrade	≥ from TF TP 192 - 168 - 1 - 82 ● IPv4 □ IPv6 DGS-1510_Series_A1_FW_v1.00.03 c	Lhad Upgrade		
$\mathbf{I}$ voe in the $\mathbf{I}$ $\mathbf{F}$ $\mathbf{I}$ $\mathbf{P}$ $\mathbf{S}$	erver ip. in th	is example it will	De: 192.100.1.02.		

The "Source URL" is the complete name of the file. In this example it is: DGS-1510 Series A1 FW v1.00.031.had

DGS-1510 Series A1 FW\_v1.00.031.had For "Destination URL", type the letter "c", then click on "Upgrade" You should see the tftp server transferring files over to the DGS-1510-28P

Current Direc	tory	C:\Pro	ogram Files\Tftpd	32	-	Bro	owse
Server interfa	ices	127.0	).0.1	Software L		Sho	w Dir
Tftp Server	Tftp	Client	DHCP server	Syslog server	Log vi	iewer	
peer			file	start time	prog	gress	
DGS-151	0 5 4	ries A1	1 FW v1 00 0	8			
& DGS-151 4561920	lO_Ser File Bytes	ries_A1 e size : sent	1_FW_v1.00.0 8504264 253440 Byte:	S/sec			
CGS-151 4561920	lO_Ser File Bytes	ries_A: e size : sent	1_FW_v1.00.0 8504264 253440 Byte:	S/sec			4

Once transfer has completed, the next screen you will see is the process regarding flashing



34		
Firmwa	are Upgrade from TFTP	
	Diesse wait programming flach	
	Please wait, programming nash	
	30%	
When the fla	ashing procedure has completed, you should be presented with a "Done" mes	ssage
3-1-		
Firmwa	are Upgrade from TFTP	
1	Done.	
Į.		
	100%	
	<u>ال</u>	

The firmware has been uploaded

Before the DGS-1510-28P is able to use the new firmware, the file needs to be allocated to the boot process of the switch. Click on "Boot Up" where column "Name" has "c". (The "c" refers to what we used in this example for "Destination URL").

File System			
Path	c:/		Go
Previous	Create Directory	Сору	



The important part now is to save the configuration by clicking on "Save"

D-Link Building Networks for People	Consider the Mode of Consider					At Stack ID Stack ID Stack ID 1 V Refresh Interval 10 secs V ped in as: Administrator, 2 Logout	
Fuzzy Search System System System La Features For Clack on "Apply". Security Se	Save Configuration Save Configuration Unit 1	File Path Tools" — ' elp — English	C/config.cfg	tem"		Apply	
Fuzzy Search     OGS-1510     System     Click System     Reboot System     Do you want to save the setting	grade & Backup n Restore & Backup o ngs ? • Yes No s, all changes made in this ses:	sion will be lost.	*		_	Reboot	
Mensaje de página v	veb sure want to reboot	3					
Acep	otar Cance	lar					

Confirm the reboot – "Accept"



×

The above screen will be presented. Wait until progress-bar has finished. Then you will need to login again.

Fuzzy Search	Device Information			
DGS-1510-28P	Device Information			
🕀 📁 System	Device Tupe	DGS 1510 29P Gigshit Ethernot Sm	MAC Address	0C DE 42 14 64 40
E Management	Device Type	Doo-1010-20P Olgabit Ethernet on	ID Address	402 408 4 250
User Accounts Settings	System Name	Switch	IP Address	192.108.1.250
Password Encryption	System Location		Mask	255.255.255.0
E SNMP	System Contact		Gateway	192.168.1.1
E FRMON	Boot PROM Version	Build 1.00.009	System Time	01/01/2000 00:04:31
Telnet/Web	Firmware Version	Build 1.00.031	Serial Number	RZ8W1DB000005
Session Timeout	Hardware Version	A1		
E DHCP				
DHCP Auto Configuration	Utilization			
🕀 📁 DNS	1			
IP Source Interface	CPU			
File System		Use		
Physical Stacking	200		Flash Memory	
Urtual Stacking (SIM)	100		13464KB 194023KB	
D-Link Discovery Protocol	80			
🕀 📁 L2 Features				
🕀 📁 L3 Features	60			
🗄 📁 QoS			16473KB	
E FACL	40			
E Security	20			
🗉 📁 OAM	20	<u></u>	68121KB	
🕀 🃁 Monitoring	0			
🕀 📁 Green	Average: 11 %	9 %		
			55 % 26 %	
			14	
	1			

To verify the firmware upgrade, click on "DGS-1510-28P" to give you "Device Information"

Here you can see the latest firmware has been successfully uploaded and installed.