

 Firmware Version:
 2.01.006/2.00.013

 MIB Version:
 DGS-1250_MIB_

 Files_20190731.zip

 D-View Module Version:
 NA

 Published:
 Dec. 17, 2019

Note: If the device is with less and equal to 1.00.040 version of firmware, please follow up this procedure to upgrade firmware to v2.01 successfully.

- 1. Upgrade a temporary firmware v2.00.013, making sure the device is with firmware v2.00.013.
- 2. Upgrade firmware v2.01 to device

These release notes include important information about D-Link switch firmware revisions. Please verify that these release notes are correct for your switch:

- If you are installing a new switch, please check the hardware version on the device label; make sure that your switch meets the system requirement of this firmware version.
 Please refer to <u>Revision History and System Requirement</u> for detailed firmware and hardware matrix.
- If the switch is powered on, you can check the hardware version by typing "show switch" command via Telnet or by checking the device information page on the web graphic user interface.
- If you plan to upgrade to the new firmware release, please refer to the <u>Upgrade</u> <u>Instructions</u> for the correct firmware upgrade procedure.

For more detailed information regarding our switch products, please refer to <u>Related</u> <u>Documentation</u>.

You can also download the switch firmware, D-View modules and technical documentation from <u>http://tsd.dlink.com.tw</u>.

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Revision History and System Requirement:								
Firmware Version	Date	Model	Hardware Version					
Runtime: v1.00.039	13-Jun19	DGS-1250-28X DGS-1250-28XMP DGS-1250-52X DGS-1250-52XMP	A1					
Runtime: v1.00.040	7-Oct19	DGS-1250-28X DGS-1250-28XMP DGS-1250-52X DGS-1250-52XMP	A1					
Runtime: v2.1.006/2.00.013	17-Dec19	DGS-1250-28X DGS-1250-28XMP DGS-1250-52X DGS-1250-52XMP	A1					

Upgrade Instructions:

D-Link Smart Switches support firmware upgrade via TFTP server. You can download the firmware from D-Link web site <u>http://tsd.dlink.com.tw</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 commands:

Command	Function
copy tftp://location/filename flash: {Image1 Image2}	Download firmware file from the TFTP server to the switch.
Boot image {Image1 Image2}	Change the boot up image file.
Show boot	Display the information of current boot image and configuration.
reboot	Reboot the switch





Example:

DGS-1250-28X: Command: copy tftp: //10.90.90.99/DGS1250/DGS-1250_Run_1_00_039.had flash: Image1

Address of remote host [10.90.90.99]? Source filename [DGS1250/DGS-1250_Run_1_00_039.had]? Accessing tftp:// 10.90.90.99/DGS1250/DGS-1250_Run_1_00_039.had... Transmission start... Transmission finished, file length 8709008 bytes. Please wait, programming flash...... 100 % Please wait, programming flash for language filesDone.

Switch# Switch#configure terminal Switch(config)#boot image Image1 Switch(config)#end Switch#sh boot

Unit 1 Boot image: /c:/Image1 Boot config: /c:/Config1

Switch#reboot

Are you sure you want to proceed with the system reboot?(y/n) y Please wait, the switch is rebooting...

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. Two methods can be selected to update switch's firmware or configuration file. A. Go to Tools > Firmware Upgrade & Backup > Firmware Upgrade from HTTP from the banner. B. Go to Tools > Firmware Upgrade & Backup > Firmware Upgrade from TFTP from the banner.

Firmware Upgrad	e from HTTP	_	
Source File Destination File	Image 1	Browse	Upgrade

Firmware Upgra	de from TFTP	
TFTP Server IP		Google
Source File	64 chars	
Destination File	Image 1 🗸	
		Upgrade

Upgrade using D-Link Network Assistant

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

1. Execute D-Link Network Assistant

D D-Link N	fetwork Ass	istant													-	n ×
•	Cammon	Adv	anced													
				MP		Ê		-0	Le		C					
Device	Cha	nge	Time	SNMP		Finnware	Be	sckup or	Reboot		Reset					
Settings	Pas:	sword	Settings			Upgrade	ł	Restore								
Device List	Alam	ıs(0)														
Device I	List											📿 Refresh	Search			۹
D-Link N			n 3 T	T	hue	TD4		TD-6	тт:	T	17137	o Innu t		1 M 10 M		
	Common		anced												-	□ ×
	Common	Auv		6900				25								
		1		SN		C			LG		C					
Device Settings	Cha: Pass	nge word	Time Settings	SNMP		Firmware Upgrade	Be	ackup ar Restore	Reboot		Reset					
Device List		(1)														
		s(1)										0.543				0
Device I		•			11/10			TD <i>C</i>				Ø Refresh	Starch	la : 137 - 1	10.16.3	0
Status	DES-12			Device Name	MAC	02:03:04:05	IPv4	IPv6	Device T 2013010		Interface	FW Version 4.00.050	HW Version C1	Serial Number QBDES12105200	IP Mode	Protoc DDP V

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



Setting: Password Setting: Upgnde Rerioze wież List Statu Model Name Product Type Devize Name MAC IPv4 IPv6 Devize Time Inferface FW Version 14W Version 2erial Number IP Mode I	Device List Status Poduct Type Device Name MAC IPv4 IPv6 Device Time Interfere FW Version KH Versio	
Device List O Refeath Same Product Type Device Name MAC IFv4 IFv6 Device Time Interface FW Version HW Version 2 strial Number IP Mode I	Device List Of Refersh Search.	IP Mode Pr
Status Model Name Product Type Device Name MAC IPv4 IPv6 Device Time Interface FW Version HW Version Serial Number IP Mode I	Status Model Name Product Type Device Name MAC IPv4 IPv6 Device Time Interface FW Version HW Version Senial Number	IP Mode Pr
DES-1210-28P Switch 0001102-03404/05 1090-5050 20130101000312 Port 3 400.050 C1 QEDES12105200 State IP 1	2 C DES-1210387 [Switch 00001123330435 000 0.00 200,5000000312 [Fert 3 400.050 C1 QEDES121052	0 Static IP D

5. Click Firmware Upgrade button

E	D-Link I	letwork Assista	ut .										-	□×
	•	Common .	Advanced											
	Device Settings	Change Passwoi	d Settings	SNMP	Firmware Upgrade	Back Res	up or tom		C Reset					
	Device Lis	t Alarms(1)												
	Device	List								📿 Refresh	Search			$\Theta_{\mathbf{k}}$
	Statu	Model Nam		Device Name	MAC 00:01:02:03:04:0	IP∨4	IP∨6	Device Time 20130101000312	Interface	FW Version 4.00.050	HW Version	Serial Number QEDES12105200	IP Mode	Protoco DDP V
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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.



D-Link DGS-1250 A1 Series Firmware Release Notes

👼 Firmware Upgrade				X
Firmware Upgrade		2 Confirm Summ	mary	
TFTP IP	10.90.90.45	~		
Upgrade Selection	🕟 Use one firmware file for all devices	OUse a different finnware file for ea	ach device	
	D:\DES-1210-28P-C1-4-00-050.hex		Browse	
			Next	

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

Firmware U	Marine				
Firmware	Upgrade		20	onfirm Summary	
TFIP IP	10.90.90.45	Finoware File	: D:\DES-1210-28P-0	l-4-00-050.hex	
Apply to	All Devices				
IsSupported	Model Name	MAC	IP Address	rial N umber	
Yes	DES-1210-28P	00:01:02:03:04:05	10.90.90.90	BDES12105200	
- Notification	-	de car chong this recommendaria	w the monde process:	Authentication	
Waming unrecover your devi	able damage to the devices m ces may reboot.	nde or close this program durin ay reveit. Please noise that duri	ig the upgrade process; ing the upgrade process,	User Name admin	
Waming unrecover your devis	able damage to the devices m	uk or close this program durin sy result. Please note that duri	ig the upgrade process ; ing the upgrade process,		

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

Result					Starch 🔍	
Result	Model Name	MAC	IP Adduess	Details		
v	DES-1210-28P	00:01:02:03:04:05	10.90.90.90	Command has been succesfully executed		
					Close	

New Features:

Firmware Version	New Features
V1.00.039	First Release
V1.00.040	N/A
V2.01.006/2.00.013	 Full feature command line SNMP trap - New MAC notification with VLAN ID PD alive 802.1x host-based access control Supports Do command Note: The new firmware V2.0x.xxx is not backward compatible with V1.00.xxx.

Changes of MIB Module:

For detailed changes of MIB content, please refer to the modification history in each MIB file.

Firmware Version	MIB File	New Features
V1.00.039	DGS- 1250_MIB_Files_20190320.zip	First Release
V1.00.040	No change	
V2.01.006	DGS- 1250_MIB_Files_20190731.zip	

Changes of Command Line Interface:

The section below only shows command line changes that may bring backward compatibility issues with configuration settings for previous version of firmware. Any new feature commands that do not have backward compatibility issues are not included in the below section.

Firmware Version	Changes
V1.00.039	N/A
V1.00.040	N/A

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V2.01.006

Support Full CLI

Problem Fixed:

Firmware	Problems Fixed	
Version V1.00.039	 [DBG19040640] The hop count value does not increase 1 when DHCP discover packets relay to DHCP server. (Will Fix in R2) [DBG19040649] The 802.1X RADIUS Statistic are up when the status of server 1 is entering deadtime. (Will Fix in R2) [DBG19050009] The behavior of 802.1X unauthenticated port and authenticated port are abnormal. (Will Fix in R2) [DBG19040521] IGMP Snooping web button error. (Will Fix in R2) [DBG19040443] Deleting specific VLANs will show success but it does not exist in VLAN entries. (Will Fix in R2) [DBG19040181, DBG19040204] Reserved Multicast addresses packets will be captured at the receiver more than sender. (Will Fix in R2) [DBG19040355]DUT will not reply ping packet with jumbo frame. (Will Fix in R2) [DBG19040523] There is no warning message for un-existed time profile on Power Saving page. (Will Fix in R2) [DBG19040533] DUT cannot recognize some IPCams(D- link/Hikvision/Dahua) (Will Fix in R2) [DBG19040520] DUT will mirror few packets under full packet rate. (SW RD will improve on R2) 	
V1.00.040	1. Fixed the fan LED error issue	
11.V2.01.006	 The Packets will not be mirrored when the packets meet the ACL deny rule. [DBG19040640] The hop count value does not increase 1 when DHCP discover packets relay to DHCP server. [DBG19040649] The 802.1X RADIUS Statistic are up when the status of server 1 is entering deadtime. [DBG19050009] The behavior of 802.1X unauthenticated port and authenticated port are abnormal. [DBG19040521] IGMP Snooping web button error. [DBG19040181, DBG19040204] Reserved Multicast addresses packets will be captured at the receiver more than sender. 	
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	7. [DBG19040355] DUT will not reply ping packet with jumbo frame.
	8. [DBG19040533] DUT cannot recognize some IPCams (D-
	Link/Hikvision/Dehua)
	9. [DBG19040520] DUT will mirror few packets under full packet rate.
	10. DBG19110242: [DHCP Relay plus DHCP Snooping] Error log occurred
	after Client get IP
	11. DBG19110340: [CLI/IMPB] Configure "ip verify source vlan dhcp-
	snooping" failed.
	12. DBG19110347: [802.1X device configure multi-auth mode] When
	configure multi-auth mode, CLI doesn't show error message to let user
	know unable to initialize as multi-auth mode, but WEB GUI works
	normally.
	13. DBG19110348: [802.1X] When 802.1X is disabled, DUT should not be
	allowed to initialize by port.
	14. DBG19110431: [802.1X] Re-authenticate by port does not work
	normally on CLI.
	15. DBG19040727: Unable to change time by NTP/SNTP server
	16. DBG19110878: [CLI/LBD] Sometimes device will reboot with crash
	exception log after enabling LBD. This issue is random and cannot be
	duplicated every time.

* D-Link tracking number is enclosed in ()

Known Issues:

Firmware Version	Issues	Worka round
V1.00.039	N/A	
V1.00.004	N/A	
V2.01.006	 [DBG19040443] Deleting specific VLANs will show success but it does not exist in VLAN entries. [DBG19040523] There is no warning message for un-existed time profile on Power Saving page. Chip Limitation: In the current design, NDP packets(ICMPv6 type 133~137) cannot 	
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be deny the HW forward packets by user ACL. It is chip limitation for DGS-1250.

- The destination port numbers 5426 and 5427 are used for CAPWAP data and control packets in the DGS-1250-28X/28XMP chip. If the switch checks that the header is invalid, the default action of both packets will be dropped.
- 3. Dynamic ARP entries cannot be kept when the related L2 entry age-out
- If aging time of "ARP" is greater than aging time of "MAC address", when MAC address is aged out, the corresponding ARP entries will be aged out, too.

Related Documentation:

- DGS-1250 Series A1 Web Manual, CLI Manual, Hardware Manual V2.0
- DGS-1250 Series A1 Getting Started Guide

