DGS-3420 Series Firmware Release Notes



D-Link

Firmware Version: V1.50.017 Prom Code Version: V1.00.006 Published: 2011/12/12

These release notes include important information about D-Link DGS-3420 series 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 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 Instructions</u> for the correct firmware upgrade procedure.

For more detailed information regarding DGS-3420 series products, please refer to <u>Related</u> <u>Documentation</u>.

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

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Revision History and System Requirement

Firmware Version	Date	Model	Hardware Version
	2011/7/7	DGS-3420-28TC	A1
		DGS-3420-28SC	A1
Runtime: v1.00.023		DGS-3420-26SC	A1
Prom: v 1.00.006	2011/7/7	DGS-3420-28PC	A1
		DGS-3420-52T	A1
		DGS-3420-52P	A1
	2011/10/7(A1) 2011/12/6(A2)	DGS-3420-28TC	A1, A2
		DGS-3420-28SC	A1, A2
Runtime: v1.00.024		DGS-3420-26SC	A1, A2
Prom: v 1.00.006		DGS-3420-28PC	A1, A2
		DGS-3420-52T	A1, A2
		DGS-3420-52P	A1, A2
		DGS-3420-28TC	A1, A2
		DGS-3420-28SC	A1, A2
Runtime: v1.50.017 Prom: v 1.00.006	2012/12/12	DGS-3420-26SC	A1, A2
	2012/12/12	DGS-3420-28PC	A1, A2
		DGS-3420-52T	A1, A2
		DGS-3420-52P	A1, A2

Upgrade Instructions:

D-Link 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 (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

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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_from_TFTP [<ipaddr> <ipv6addr>] src_file <path_filename 64=""> {[unit <unit_id> all]} {dest_file <pathname 64="">}</pathname></unit_id></path_filename></ipv6addr></ipaddr>	Download firmware file from the TFTP server to the switch.
	config firmware image {unit <unit_id>} <path_filename 64=""> boot_up</path_filename></unit_id>	Change the boot up image file.
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show boot file	Display the information of current boot image and configuration.
reboot	Reboot the switch.

Example:

 $\label{eq:DGS-3420-28TC:15\# download firmware_from_TFTP 10.53.13.201 src_file c:\DGS-3420_Series_FW_1.00.023.had dest_file c:\DGS-3420_Series_FW_1.00.023.had$

Command: download firmware_from_TFTP 10.53.13.201 src_file c:\ DGS-3420_Series_FW_1.00.023.had dest_file c:\ DGS-3420_Series_FW_1.00.023.had

Connecting to server.....Done. Download firmware.....Done. Do not power off! Upload file to FLASH.....Done.

DGS-3420-28TC:15# config firmware c:\ DGS-3420_Series_FW_1.00.023.had boot_up Command: config firmware c:\ DGS-3420_Series_FW_1.00.023.had boot_up

Success.

DGS-3420-28TC:15# show boot_file Command: show boot_file

Unit ID : 1 Boot up firmware image : C:\DGS-3420_Series_FW_1.00.023.had Boot up configuration file: C:\STARTUP.CFG

DGS-3420-28TC:15# reboot Command: reboot Are you sure you want to proceed with the system reboot? (y|n) y Please wait, the switch is rebooting...

Upgrading by 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 username and password when prompted. It should be noted that the username and password are blank by default.
- To update switch's firmware or configuration file, select *Tools > Download Firmware* from the banner.
- 5. Use the drop-down menu to select a unit for receiving the firmware. Select **All** for all units.
- 6. Enter the TFTP Server IP address.
- 7. Enter the name of the firmware file located on the TFTP server.
- 8. Enter the destination path and the desired file name.
- 9. Tick the check box to set it as a boot up file.
- 10. Click "Download" button.

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11. Wait until the "Current Status" displays "Done" and the "Percentage" shows "100%".

Download Fir	Download Firmware From TFTP O Sefeguerd			
Current Status : Percentage	Done. 100%			
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11. To select the boot up image used for next reboot, click **Network Application > Flash File System Settings** in the function tree and then click the C: drive name. When you see the files list, click corresponding "**Boot Up**" button to specify the firmware that will be used for next and subsequent boot up.

Flash File	System Settings				() Safeguerd
Current Unit: Current Path:	1				Go
Previous	Create Directory	Сору	Move		
Root	Media Type Flash	Size (MB) 123	Label	File System Type FFS	
<u>C:</u>	Flash	125		FFS	

Flas	sh File Sy	stem Settings	-						O Safe	aguard
Curre	ent Unit:	1 🔻								
Curre	ent Path:	c:/							Go	
	Previous	Create Directory		Сору	Move		🗖 List E	loot Up Files	Only	
Index	Name	Info	Attr	Size (byte)	Update Time					
1	config.cfg	CFG(*)	- г ₩-	27513	2000/07/25 13:06:33	Active	Boot Up	Rename	Delete)
2	runtime.had	RUN(*)	- г ₩-	5450264	2000/07/21 14:38:02		Boot Up	Rename	Delete]
3	<u>system</u>		d		2000/07/25 12:59:21			Rename	Delete)
	(*) -with bo	tal (24170 KB free) ot up info ckup info								

- 12. To reboot the switch, select **Tools > Reboot System** from the banner.
- 13. Select "Yes" and click "Reboot" button to reboot the switch.

New Features

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	Firmware Version	New Features
	V1.00.023	First release, please refer to datasheet and manual for detail function supported
	V1.00.024	None
		1. Support configurable DHCP server option
	V1.50.017	Policy route support "route_preference [default pbr]" command
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Changes of MIB & D-View Module

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The new features of MIB file are also included in the corresponding D-View module. Please download the D-View module on http://tsd.dlink.com.tw. For detailed changes of MIB content, please refer to the modification history in each MIB file.

	Firmware Version	MIB File	New Features	
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V1.00.023	First release, please refer to datasheet for detail MIB supported			
V1.00.024	None			
	Genmgmt.mib	 Support total number of ARP entries Port utilization by percentage Support to respond a broadcast SNMP GET packet 		
	wred.mib	Weighted Random Early Detection		
	SFTPServer.mib	Secure FTP server for IPv4		
	Rfc2787.mib	VRRP		
	Equipment.mib	Support advanced power saving		
	QoS.mib	 Bandwidth control minimum granularity down to 8Kbps DSCP to CoS mapping 		
	ddm.mib	Support show DDM TX/RX power		
	QinQ.mib	Support selective Q-in-Q		
	L3mgmt.mib	 IPv6 Route Redistribution IP directed broadcast 		
	L2mgmt.mib	IGMP authentication support auth & accounting, auth only or accounting only		
V1.50.017	PktStormCtrl.mib	 Support configure per packet type threshold on same port Support storm control log/trap for drop mode 		
	IPMacBind.mib	IMPB v3.95		
	Filter.mib	DHCPv6 Server Screening		
	AAC.mib	 Support to set accounting server IP address Support command accounting 		
	LBD.mib	LBD v4.05		
	SSH.mib	Support public key for SSH authentication		
	DHCPRelay.mib	DHCP relay per port		
	DHCPServer.mib	Support configurable DHCP server option		
	NLB.mib	Support unicast NLB		
	policyRoute.mib	Policy route support to choose the priority of route table or PBR		
	SrcIPIf.mib	Support to select IPIF as the source address for TFTP/Telnet/Tacacs/Radius		

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
V1.00.023	First release
V1.00.024	None
V1.50.017	None



Problem Fixed

Firmware Version	Problems
V1.00.023	First release
V1.00.024	 Modify CPU GPIO pin setting on DGS-3420-28SC/28TC/52T Modify RTC trickle register to reduce charging time
	1. When setting "config multicast vlan_filtering_mode", the outputs of "show config effective" and "show config modified" are incorrect. (DUSA20120628000003)
	2. When using a SSH vulnerability tool (Rubyinstaller), DGS-3420 will be rebooted automatically(Dl20121012000005)
V1.50.017	 3. After enabling LACP and traffic segmentation, ARP packets will be forwarded even if the port is not in traffic segmentation forward list (DRU2012101500004) 4. When connecting TFTP server from Mgmt interface and normal interface at the same time, download firmware from TFTP will be failed. (DI20120622000007) 5. When typing "config stp mst_config_id name PGS1 revision_level", DGS-3420 will be rebooted automatically (DRU2012052300009) 6. CPU high because of DHCP relay packet was looped on ingress port (DEUR20121023000007) 7. IPTV froze because of some multicast packets are dropped (DEUR2012102300007) 8. DGS-3420 doesn't insert option 82 in unicast DHCP request (DEUR2012102300007) 9. DGS-3420 doesn't transmit DHCP release packet when enabling DHCP relay (DEUR2012102300007) 10. DGS-3420 will drop double tagged IGMP query packet on untagged port (DEUR2012102300007)

* D-Link tracking number is enclosed in ()

Known Issues

Firmware Version	Issues	Workaround
V1.00.023	None	
V1.00.024	None	
V1.50.017	None	

Related Documentation

- DGS-3420 Series Web UI Reference Guide Release 1.5
- DGS-3420 Series CLI Reference Guide Release 1.5
- DGS 3420_Series_FW_HW Installation Guide 1.5

