Firmware Version: V2.10.011
Prom Code Version: V1.00.007
Published: 2012/02/13

These release notes include important information about D-Link DGS-6600 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 Revision History and System Requirement for detailed firmware and hardware matrix.
- If the switch is powered on, you can check the hardware version by typing "show system" command o r 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 Upgrade Instructions for the correct firmware upgrade procedure.

For more detailed information regarding DGS-6600 series switch products, please refer to Related Documentation.

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

Content:

Revision History and System Requirement

Firmware Version	Date	Chassis Model	Control Model	Hardware Version
V1.00.031	2011/3/25	DGS-6604	DGS-6600-CM	A1
V1.00.036	2011/5/3	DGS-6604	DGS-6600-CM	A1
V2.00.022	2011/09/28	DGS-6604	DGS-6600-CM	A1
V2.10.011	2012/	DGS-6604	DGS-6600-CM	A1

Firmware Version	Supported Line Cards			
V1.00.031	DGS-6600-48T	DGS-6600-48S	DGS-6600-48TS	DGS-6600-8XG
V1.00.036	DGS-6600-48T	DGS-6600-48S	DGS-6600-48TS	DGS-6600-8XG
V2.00.022	DGS-6600-48T	DGS-6600-48S	DGS-6600-48TS	DGS-6600-8XG
	DGS-6600-48P			
V2.10.011	DGS-6600-48T	DGS-6600-48S	DGS-6600-48TS	DGS-6600-8XG
	DGS-6600-48P	DGS-6600-24SC2XS		

Upgrade Instructions:

D-Link switches support firmware upgrade via TFTP server. You can download the firmware from D-Link web site http://tsd.dlink.com.tw, 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**

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
`copy tftp:\\ IP-ADDRESS \ [ DIRECTORY \ ] FILENAME DESTINATION-URL`	Copy the specified file from the URL on the host to the equipment.
`show boot`	Display the file name of current boot image and configuration.
`reboot`	Reboot the switch.

Example:

DGS-6600:15#copy tftp:\\10.1.1.254\runtime.1.00.036_DGS-6600.had

flash:\images\runtime.1.00.029_DGS-6600.had

Copy from 10.1.1.254\runtime.1.00.029_DGS-6600.had to flash:\images\runtime.1.00.036_DGS-6600.had ......

....

....

.................done

DGS-6600:15#

DGS-6600:15#

DGS-6600:15#configure terminal

DGS-6600:15(config)#boot image flash:\images\runtime.1.00.036_DGS-6600.had

Checking image at local flash:\images\runtime.1.00.036_DGS-6600.had ...   Done.

Update bootlist ...... Done.

Success

DGS-6600:15(config)#

DGS-6600:15(config)#

DGS-6600:15(config)#show boot

Boot loader version:1.00.005

Boot config:flash:\configurations\def_usr.conf

Boot image:flash:\images\runtime.1.00.036_DGS-6600.had,flash:\images\runtime.1.00.036_DGS-6600.had

DGS-6600:15(config)#

DGS-6600:15(config)#

DGS-6600:15(config)#exit

DGS-6600:15#reboot

Warning: This command will cause system reboot.

Do you want to continue (y/n) [n]?y

Save log message before reboot(y/n) [n]?y

New Features

Firmware Version	New Features
V1.00.031	First release, please refer to datasheet and manual for detail function supported
V1.00.036	None
V2.00.022	1. Support DGS-6600-48P line card

	2. ERPS(Ethernet Ring Protection Switching) 3. LBD (Loopback detection) 4. RSPAN 5. Voice VLAN 6. Support BGP route redistribution 7. Policy-based Route 8. IP-MAC-Port Binding (IMPB) 9. D-Link Safeguard Engine 10. DHCP Server Screening 11. DHCP Client Filtering 12. Telnet Server 13. sFlow 14. System Log 15. Network Load Balancing (NLB) 16. SNMP over IPv6 17. Syslog over IPv6 18. LLDP/LLDP-MED 19. Time-based PoE
V2.10.011	1. IPv6 long prefix 2. TACACS+ user level assign 3. DDM

Changes of MIB & D-View Module

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
V1.00.031	First release, please refer to datasheet for detail MIB supported
V1.00.036	None
V2.00.022	OSPFV3-MIB
	DLINK-SYSLOG-MIB
	DLINK-PORT-SECURITY MIB
	DLINK-SWITCHPORT-MIB
	DLINK-PACKET-MONITORING-MIB
	DLINK-TIME-CONFIGURATION-MIB
	DLINK-SSH-MIB
	DLINK-BOOTP-DHCP-RELAY-MIB
	DLINK-DHCP-SERVER-IPV4-MIB
	DOS-PREV-MIB
	DLINK-VLAN-TUNNEL-MIB
	DLINK-SUBNET-VLAN-MIB
	DLINK-MAC-BASED-VLAN-MIB
	DLINK-DHCPR6-MIB
	DLINK-DHCP6-CLIENT-MIB
	SAFEGUARD-ENGINE-MIB
	DLINK-DHCP-FILTER-MIB
	DLINK-ERROR-DISABLE-MIB

	DLINK-LOOPBACK-DETECT-MIB
	DLINK-VOICE-VLAN-MIB
	DLINK-ERPS-MIB
	DLINK-PBR-MIB
	DLINK-ROUTEMAP-MIB
	DLINK-DYNAMIC-ARP-INSPECTION-MIB
	DLINK-DHCP-SNOOPING-MIB
	POWER-ETHERNET-MIB
	SFLOW-MIB
V2.10.011	None

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
V1.00.031	First release
V1.00.036	None
V2.00.022	None
V2.10.011	Switch Port Command changed: 1. "duplex {full | half | auto} [copper]", where [copper] is for combo port design. 2. "flowcontrol [send | receive] {on | off} [copper | fiber]", where [copper | fiber] is for combo port configures on specific medium. 3. "speed {10 | 100 | 1000 [master|slave] | auto} [copper|fiber]", where [copper|fiber] is for combo port configures on specific medium.

Problem Fixed

Firmware Version	Problems
V1.00.031	First release
V1.00.036	1. Ping via DGS-6604 will loss when DGS-6604 receive IGMP report with DSCP value form one ping destination 2. Wildcard bits is not working in RIP network configuration. 3. Cannot set IP address success with valid address. 4. Stop at "ExStart" state when modify the value "mtu" under the physical interface. 5. The SPF algorithm is re-caculated every 10s for OSPF.
V2.00.022	1. The switch will prompt "% Invalid interface" when enter "ipv6 router rip" in VLAN interface. 2. SSH session will be closed when DGS-6600 is attacked by hydra tool, a dictionary attack tool. 3. DGS-6600 OSPF state is unstable after DGS-6600 is rebooted and re-learn a lot of

IPv6 routes (e.g., more than 4000 entries of RIPng routes) at the same time.

4. When DGS-6600 IGMP snooping is disabled but received IGMP packets (sent by DGS-1210), the FDB address learning maybe incorrect, causing PC ping DGS-1210 management IP failed. (DEUR20110407000006)

5. When creating ACL command but use "cursor left" key to add parameter (eg, ex), it will cause DGS-6600 to parse the command as an ambiguous result.

6. When deleting an ACL rule that is not applied on the specified interface, DGS-6600 does not prompt the warning message.

7. After assigning VLAN-trunk (4K VLAN entries) to the specified interfaces, it will spend more than 30 minutes if user resets the device to default configuration. After Improvement, it takes 7.5 minutes to complete it. (DI20110617000006)

8. Due to memory resource constraint, DGS-6600 limits the maximum number of ports which can be added in VLAN to 4094 VLANs x 96 ports (which is 393,024), but it does not limit in "port channel". (DI20110621000008)

9. DGS-6600 cannot add a static IPv6 neighbor entry except VLAN 1. (DI20110629000008)

10. The DGS-6600 re-calculates OSPF routing table every 10 seconds, causing network unstable.

11. DHCP relay function will stop running when DGS-6600 receives invalid header with DHCP packet.

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1. Reboot spontaneously caused by IP route entries (by static, OSPF, RIP, etc) adding and deleting for many times.

2. Allow to configure the IP address having "255", e.g., 172.16.0.255/16, as its interface IP address.

3. IPv6 address mask of 128 bits prefix length is supported. (DRU20111020000001)

4. The result of "show erps erpi" command is wrong. The port status is link down, however the port shows forwarding instead.(DI20111115000003)

5. Cannot change ERPS blocking port to forwarding after un-plugging and then re-plugging the cable. (DI20111115000003)

6. Support user 4 levels (1, 2, 12&15) from the TACACS+ server. (DRU20111121000002)

* D-Link tracking number is enclosed in ()

Known Issues

Firmware Version	Issues	Workaround
V1.00.031	None	
V1.00.036	None	
V2.00.022	None	
V2.10.011	1. [DDM] Lose some ddm configuration after excute "copy startup-config running-config" command. 2. [TraceRoute] Ping OK to some ipv6 address but fail to traceroute it	None

Related Documentation

- DGS-6600 Series CLI Reference Guide Release v2.00
- DGS-6600 Series Hardware Installation Guide v2.00