Firmware Version: V1.20.011
Prom Code Version: V1.00.012
Published: 2015/5/2

These release notes include important information about D-Link DGS-1510 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 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 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.

For more detailed information regarding DGS-1510 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	Model	Hardware Version
Runtime: v1.20.011 PROM: v1.00.012	2015/5/2	DGS-1510	A1
Runtime: v1.10.005 PROM: v1.00.011	2014/5/21	DGS-1510	A1
Runtime: v1.00.031 PROM: v1.00.009	2014/1/15	DGS-1510	A1
Runtime: v1.00.029 PROM: v1.00.009	2014/1/13	DGS-1510	A1

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://location/filename flash: filename	Download firmware file from the TFTP server to the switch.
boot system flash filename	Change the boot up image file.
show boot	Display the information of current boot image and configuration.
reboot	Reboot the switch.

Example:

DGS-1510#copy tftp: //192.168.0.27/firmware.had flash: run.had

Address of remote host [192.168.0.27]
Source filename [firmware.had]
Destination filename [run.had]

Accessing tftp://192.168.0.27/ firmware.had...
Transmission start...
Transmission finished, file length 5156864 bytes.
Please wait, programming flash... Done

DGS-1510#
DGS-1510#configure terminal
DGS-1510(config)#boot system flash firmware.had

DGS-1510#sh bootup

Bootup Firmware : /c:/1.00.029.had
Bootup Configuration : /c:/config.cfg

DGS-1510#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 management port of the device and also connect console cable to switch's console port.

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 starting from R1.20 formal firmware release the default login settings are as below:**
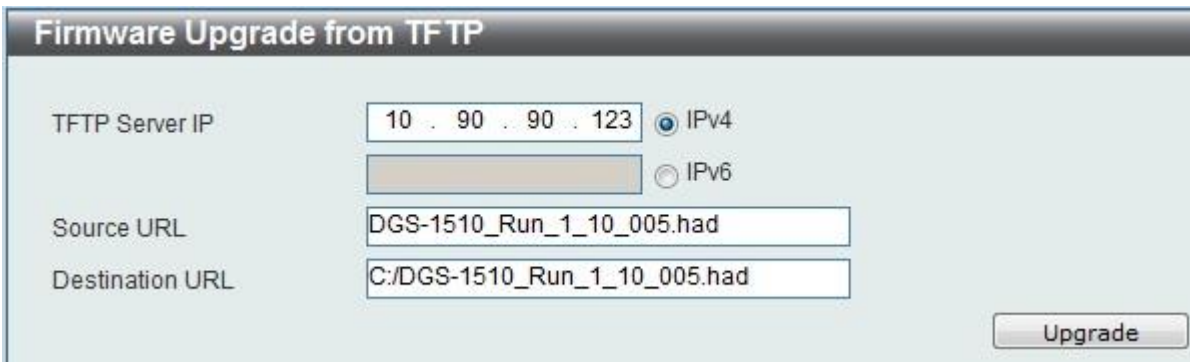
   **Username: admin**

   Password: admin

4. To update switch's firmware or configuration file via TFTP, select **Tools > Firmware Upgrade & Backup > Firmware Upgrade from TFTP**.

5. Enter the TFTP Server IP address.
6. Enter the name of the firmware file located on the TFTP server.
7. Enter the destination path and the desired file name.
8. Click "**Upgrade**" button.

9. Transmission will start and wait until the status is completed by displaying **100%** complete.

10. Alternatively, the switch's firmware or configuration file can also be upgraded via HTTP, select **Tools > Firmware Upgrade & Backup > Firmware Upgrade from HTTP**.
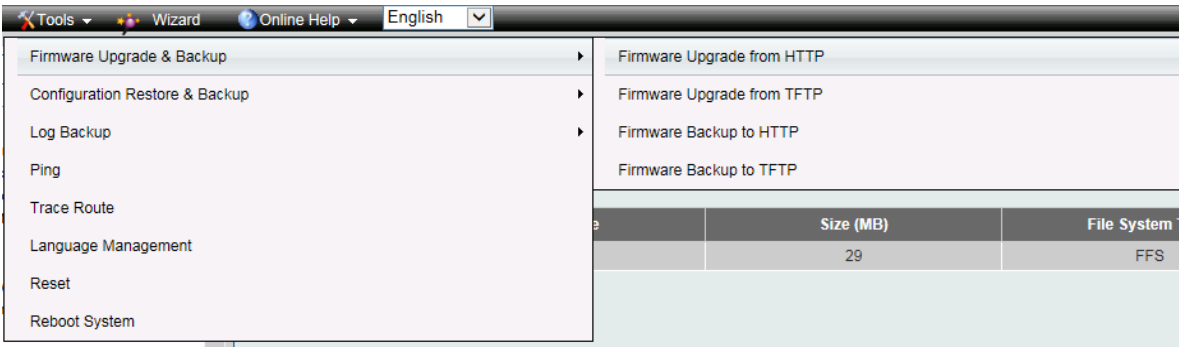

11. Enter the source and destination file.

12. Click "**Upgrade**" button.

13. Transmission will start and wait until the status is completed by displaying **100%** complete.

14. To select the boot up image used for next reboot, click **Management > Flash System** 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.
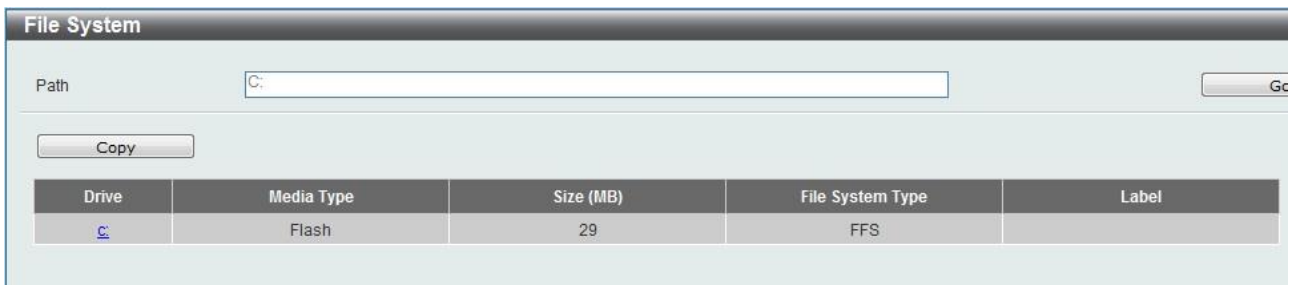
15. To reboot the switch, select **Tools > Reboot System** from the banner.
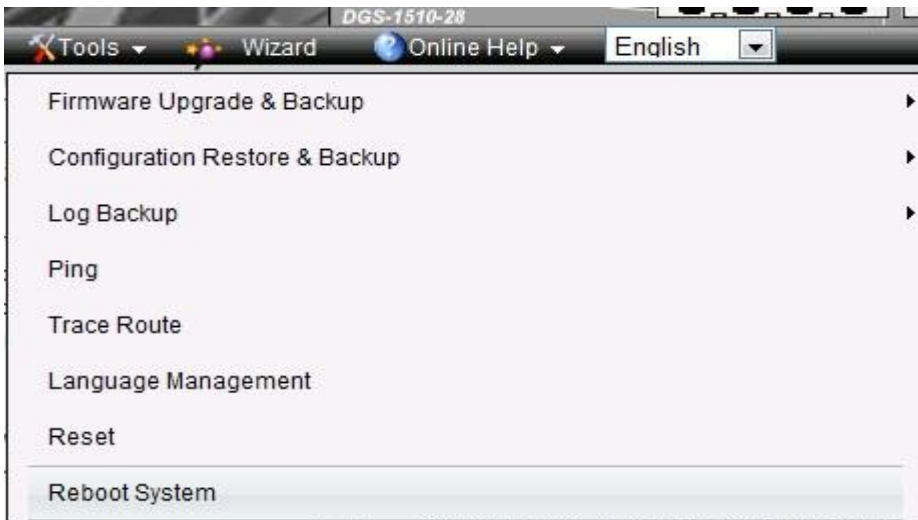
16. Select **Yes** and click **Reboot** button to reboot the switch.
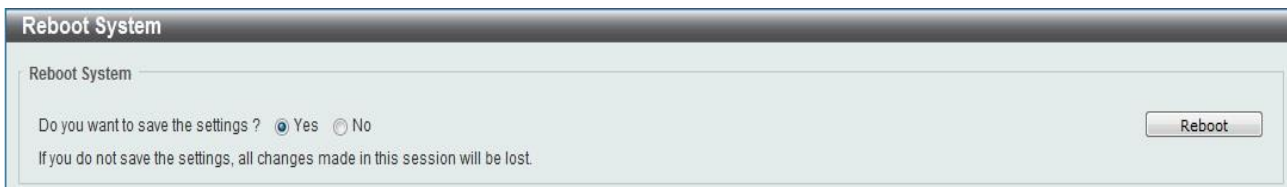
New Features

Firmware Version	New Features
V1.20.011	1. Add NTP (RFC5905) 2. Modify IP interface from 8 to 16 3. Modify STP edge default settings to "True" 4. Add ERPS 5. Add sFlow 6. Add default username (admin) & password (admin)
V1.10.005	1. Existing 4 models can now Physical Stack with 2 new members (DGS-1510-28X & DGS-1510-52X) 2. Add BPDU Attack Protection 3. Add the Command "Trace route" 4. Add the Command "prompt" for customizing CLI prompt 5. Add "Login Method" page for Web UI (for telnet session setup requirements under Web UI) 6. Supports D-Link's new IP Cameras' MAC Address ranges: B0:C5:54:00:00:00 ~ B0:C5:54:7F:FF:FF for Auto Surveillance VLAN 7. Modify user-defined OUI of Auto Surveillance VLAN & Auto Voice VLAN from 5 to 10 8. Modify web-UI's smart wizard to include a last step for configuring username & password
V1.00.031	None
V1.00.029	First release, please refer to datasheet and manual for detail function support

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	New Features
V1.20.011	1. Add DLINKSW-SFLOW-MIB 2. Add DLINKSW-ERPS-MIB 3. Add DLINKSW-NTP-MIB	
V1.10.005	1. Add DLINKSW-BPDU-PROTECTION-MIB.mib 2. Add DISMAN-TRACEROUTE-MIB.mib 3. Modify DGS-1510 Series Physical Stacking for 6 models in D-View (2 new models DGS-1510-28X, DGS-1510-52X) 4. Add new features BPDU Protection in D-View 5. Add new features Trace Route in D-View	
V1.00.031	None	
V1.00.029	First release, please refer to datasheet for detail MIB support	

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
V1.20.011	None
V1.10.005	None
V1.00.031	None
V1.00.029	First release

Problem Fixed

Firmware Version	Problems
V1.20.011	1. Modified DHCP Snooping's default value of "per VLAN disabled" to "per VLAN enable" to allow PCs to get IP address via DHCP on a stacking member port's VLAN. (DI20140411000011-Japan) 2. Fixed BPDU bug that caused looping when STP blocking port was changed between stacking units.(DI20140428000007-Japan)

3. Fixed BPDU bug that caused looping when MSTP blocking port was changed between stacking units.(DI20140526000003 & DI20140619000008-Japan)

4. Fixed the SSH RSA/DSA key generated in stacking master switch which doesn't sync to its slave switches. (DI20140604000001-Japan)

5. Fixed IP address shown in reverse in log when saving configuration via SNMP. (DRU20140512000002-Russia)

6. Fixed CPU interrupt sensitivity software settings that caused the switch to either hung up or lost management respectively. (DEUR20140929000001-EU & DUSA20150325000004-USA)

7. Fixed the switch from entering exception mode when a port is being linked up during MAC authentication. (DGC20140715000003-Taiwan)

8. Fixed IPv6 JWAC bug that did not redirect to authentication page if the interface's IPv6 state is disabled or no IPv6 address has been assigned. DI20140722000002-Japan)

9. Modify software settings in order for Realtek 8111R NIC card to retrieve IP address from DHCP server faster while transiting via DGS-1510. (DGC20140717000005-China)

10. Enhance support for Intel 82579 NIC card using different driver versions so those DHCP bootp packets are not dropped. (DEUR20140311000007-EU)

11. Fixed DHCP Relay bug that caused PCs not able to get IP address from DHCP server when client & server are in the same VLAN. (DEUR20140902000001-EU)

12. Fixed incorrect VLAN Link status information shown in CLI. (DRU20141203000001-Russia)

13. Fixed the bug of not accepting DHCP relay source address using subnetted network address. DGC20141213000001-Taiwan)

14. Fixed the bug of not accepting configuring switch interface using subnetted network address.(DRU20141218000001-Russia)

V1.10.005	1. DHCP Snooping blocked packets from a VLAN which was not enabled by DHCP Snooping. (DI20140402000002-Japan) 2. Modify the minimum value of command "storm-control unicast level" from 1 to 0. (DI20140325000011-Japan) 3. When DHCP Relay is enabled on a VLAN, DGS-1510 still forward DHCP broadcast packets to the port connected to DHCP server. (DGC20140113000001-China)

V1.00.031	1. Fixed switch rebooting issue in first firmware release. Please see known issues for details. 2. Fixed the safeguard engine bug in first firmware release. Please see known issues for details.
V1.00.029	First release

* D-Link tracking number is enclosed in ()

Known Issues

Firmware Version	Issues	Workaround
V1.20.011	1. Switch PoE function will stop delivering power after a while, these are reported in: 　　DEUR20141105000002-EU 　　DEUR20141001000006-EU 　　DUSA20150304000002-USA 　　DEUR20141119000001-EU 　　DRU20141212000001-Russia 　　DGC20150302000001-Taiwan	It is highly recommended (DGS-1510-28P & DGS-1510-28XMP) to avoid using this firmware. Please kindly contact HQ's Tech Support or PP to get a beta firmware fix, **R1.20.B013** that had fixed this issue. R&D fixed this software bug in PoE's Microcontroller settings
V1.10.005	2. After creating a new Access List profile either via CLI or Web UI, the edit button under Access-List was not greyed out in D-View. Per D-View's design SPEC, this is prohibited. 3. IP Source Guard Static Binding table list is created either from CLI or Web UI; it was not editable from D-View. This is a bug.	These are software bugs of D-View module; they will be fixed in the next version.
V1.00.031	None	
V1.00.029	1. Under the below scenario, DGS-1510 will reboot: When a switch port (DGS-1510) is set as auto-negotiation, the other connected switch is hardcoded with 100Mbps speed. Then perform cable diagnostic on DGS-1510 and do a "show cable-diagnostic", the switch will reboot. 2. When issuing save configuration command, safeguard engine may trigger.	This is a bug, will be fixed in firmware version 1.00.031.

* D-Link tracking number is enclosed in ()

Related Documentation

- DGS-1510 Series Web UI Reference Guide Release 1.00

- DGS-1510 Series CLI Reference Guide Release 1.00
- DGS-1510 Series HW Installation Guide Release 1.00