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Firmware Version: 2.51.B007
Boot Code Version: 1.00.013
MIB Version: 2.50.002
D-View Module Version: 1.0.0.7
Published: Aug. 26, 2014

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 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 switch” Novcommand 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

Upgrade Instructions for the correct firmware upgrade procedure.

For more detailed information regarding our 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: v2.51.B007 Boot: 1.00.013	26-Aug.-14	DGS-1500-28P	A1, A2
Runtime: v2.51.B006 Boot: 1.00.013	21-Jul.-14	DGS-1500-28P	A2
Runtime: v2.51.005 Boot: 1.00.013	26-May.-14	DGS-1500-28P	A2
Runtime: v2.51.B002 Boot: 1.00.013	22-Apr.-14	DGS-1500-28P	A1
Runtime: v2.50.B009 Boot: 1.00.013	14-Feb.-14	DGS-1500-28P	A1
Runtime: v2.50.B004 Boot: 1.00.013	13-Dec.-13	DGS-1500-28P	A1
Runtime: v2.50.003 Boot: 1.00.013	09-Dec.-13	DGS-1500-28P	A1
Runtime: v2.50.B002 Boot: 1.00.013	09-Dec.-13	DGS-1500-28P	A1
Runtime: v2.50.B001 Boot: 1.00.013	22-Nov.-13	DGS-1500-28P	A1
Runtime: v2.10.B020 Boot: 1.00.013	01-Nov.-13	DGS-1500-28P	A1
Runtime: v2.10.B019 Boot: 1.00.013	20-Aug.-13	DGS-1500-28P	A1
Runtime: v2.10.002 Boot: 1.00.013	08-Nov.-12	DGS-1500-28P	A1
Runtime: v2.00.015 Boot: 1.00.013	15-Jun.-12	DGS-1500-28P	A1
Runtime: v1.10.005 Boot: 1.00.011	15-Mar.-12	DGS-1500-28P	A1
Runtime: v1.10.001 Boot: 1.00.011	11-Jan.-12	DGS-1500-28P	A1
Runtime: v1.00.018 Boot: 1.00.010	19-Oct.-11	DGS-1500-28P	A1

Upgrade Instructions:

D-Link Smart 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 (via Telnet)

1. Make sure the network connection between the switch and PC is active.
2. 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*.
3. 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 command:

Command	Function
download{firmware_fromTFTP tftp://ip-address/filename | cfg_fromTFTP tftp://ip-address/filename}	Download firmware file from the TFTP server to the switch.

When completing firmware upgrade, the following messages will pop up.

```
Device will reboot after firmware upgraded successfully
Image upgraded successfully
```

4. Execute the following command to check the firmware version and switch's information.

Command	Function
show switch	Display the information of current firmware and boot version.

Example:

1. **DGS-1500-28P:**

```
Command: download firmware_fromTFTP tftp://10.90.90.91
DGS-1500-28P_A1_2_50_B004.hex
Device will reboot after firmware upgraded successfully
Image upgraded successfully
```

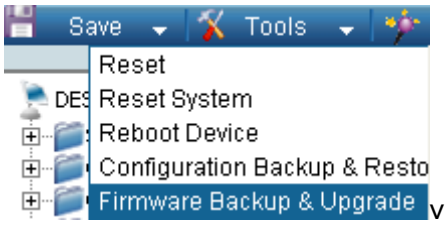
2. **DGS-1500-28P:**

```
Command: show switch
DGS-1500-28P> show switch
System name                    :
System Contact                 :
System Location                :
System up time                 : 0 days, 0 hrs, 7 min, 21 secs
System Time                    : 01/01/2012 00:14:56
System hardware version          : A1
System firmware version          : 2.50.B004
System boot version             : 1.00.013
System Protocol version          : 2.001.006
```

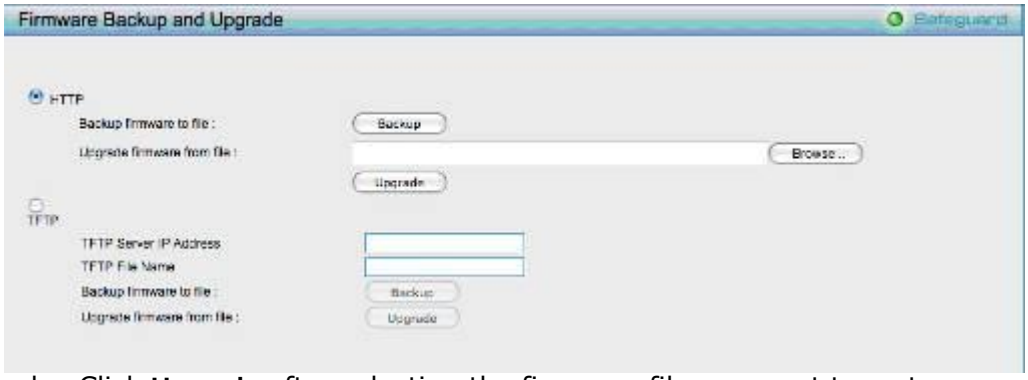
```
System serial number            : 1MB1733K0000A
MAC Address                     : 00-15-00-28-D0-17
```

Upgrade using Web-UI

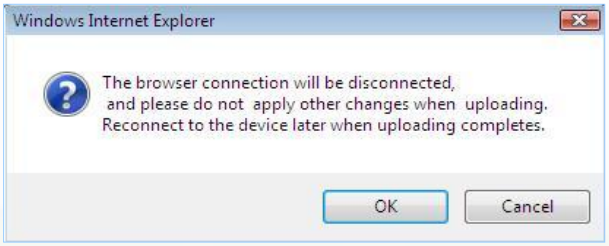
1. Connect a workstation installed with java SE runtime environment to any switch port of the device.
2. Open the web browser from the workstation and enter the IP address of the switch. The switch's default IP address is 10.90.90.90.
3. Enter administrator's password when prompted. The password is **admin** by default.
4. To update switch's firmware or configuration file, select ***Tools > Firmware Backup & Upgrade*** from the banner.



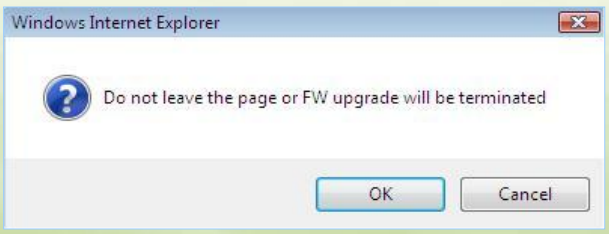
5. Two methods can be selected : **HTTP** or **TFTP**



b. Click **Upgrade** after selecting the firmware file you want to restore
c. Click **OK** to continue with firmware upgrade



d. Click **OK** to continue with firmware upgrade



e. Wait until the "Firmware Upgrade Successful" message pops up and login again after device boots up.

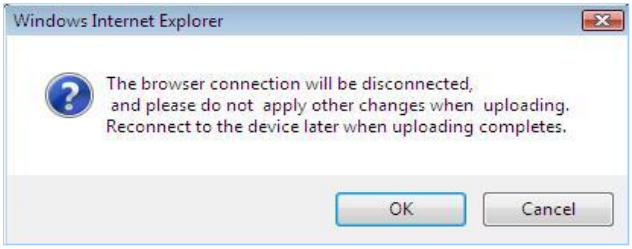
7. Select **TFTP** to upgrade the firmware to or from a remote TFTP server.

a. Enter the name of the firmware file located on the TFTP server

b. Click **Upgrade** after selecting the firmware file you want to restore

c. Click **OK** to continue with firmware upgrade

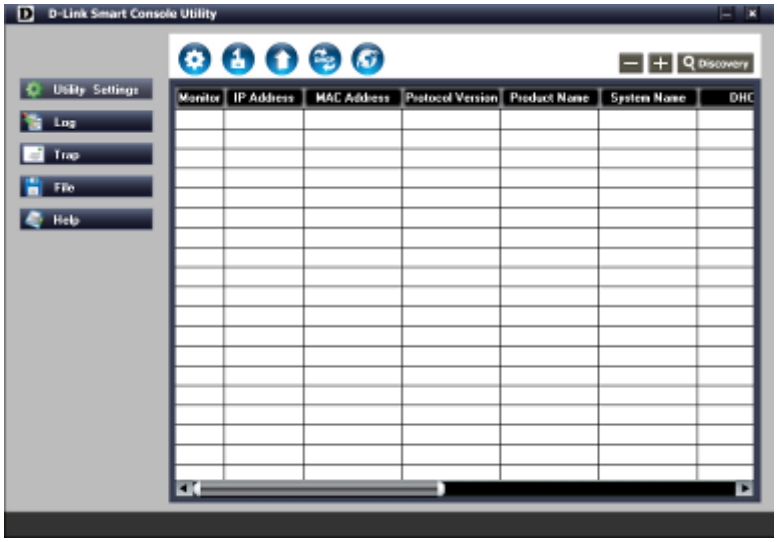
d.

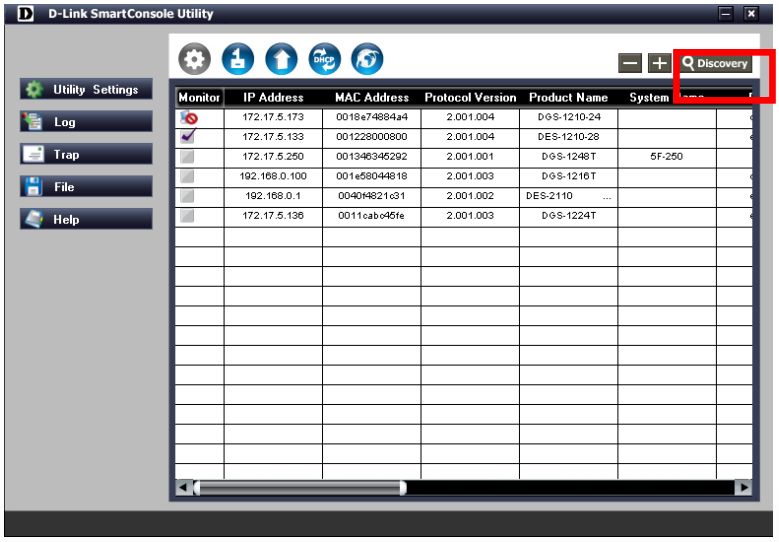


e. Wait until the firmware upgrade ends and login again after device boots up.

Upgrade using SmartConsole Utility

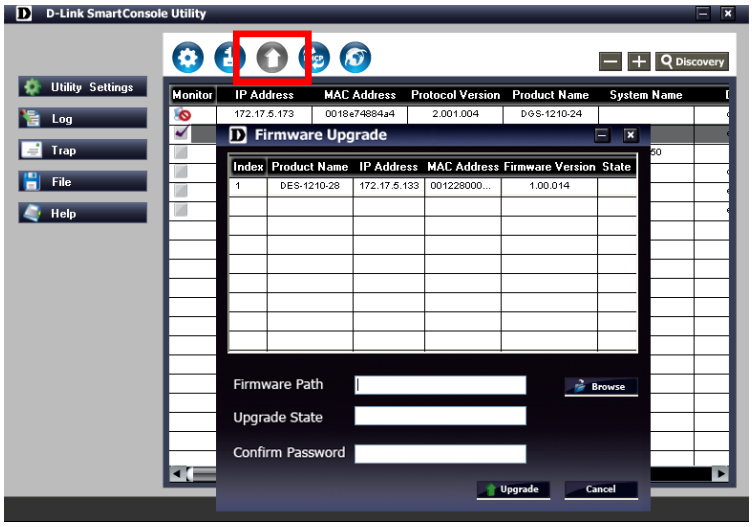
1. Connect a workstation installed with java SE runtime environment to any switch port of the device
2. Execute SmartConsole Utility



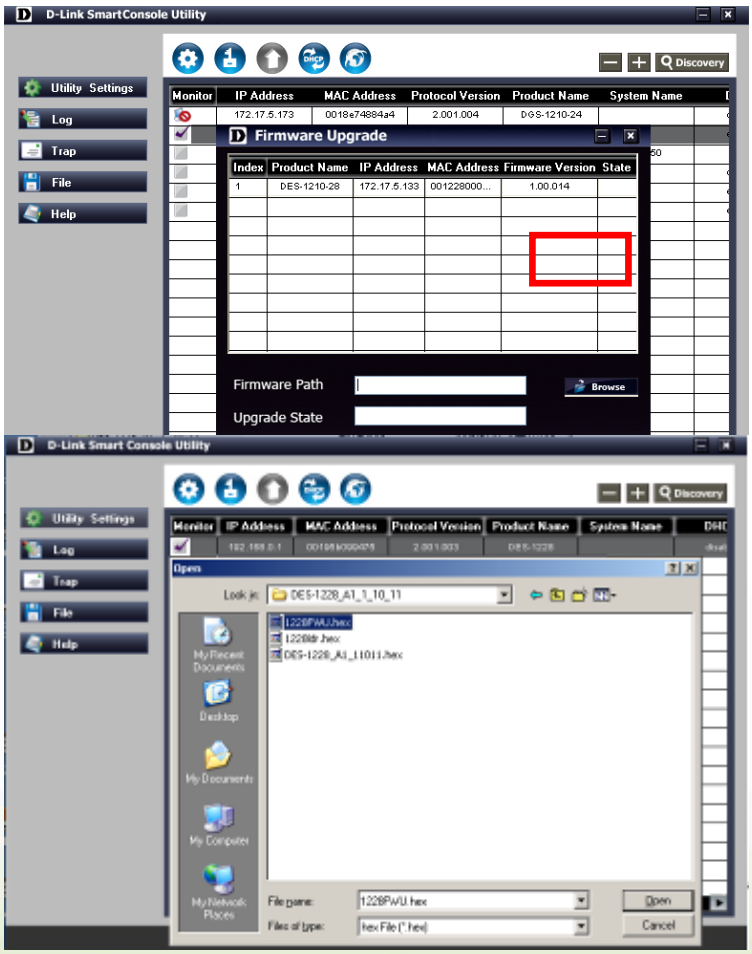


4. Single click the icon of Monitor column to choose the target switch

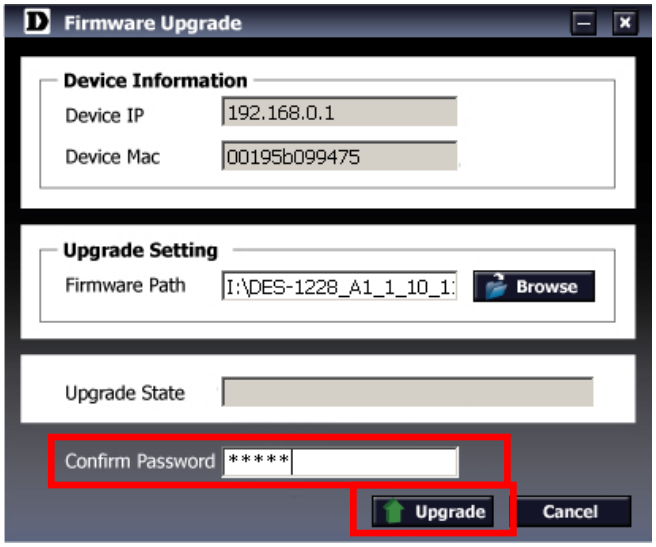
5. Click Firmware Upgrade button



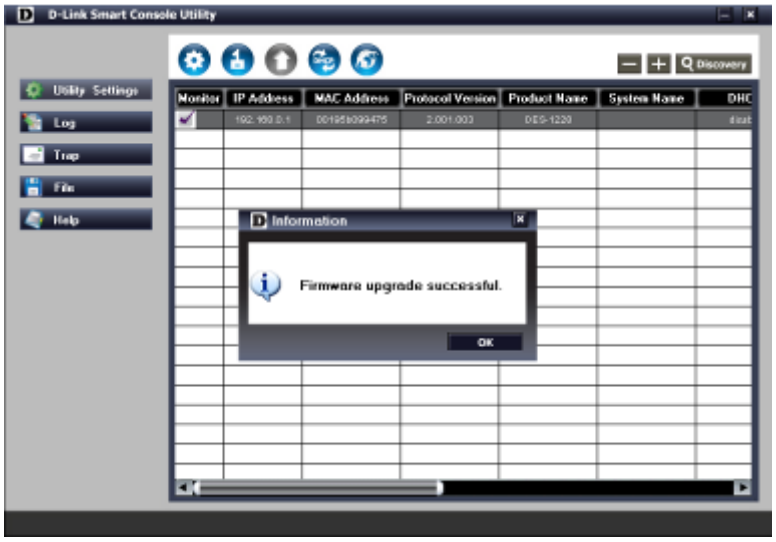
6. Click Browse button and select the firmware file (Model name_HW ver._FW ver. .hex) on your local hard drive.



7. Enter password and click "Upgrade" button to start firmware upgrade. The default password is "admin".



8. Once the message popped up, click "OK" button to complete the firmware upgrade



New Features:

Firmware Version	New Features
V2.51.B007	NA
V2.51.B006	NA
V2.51.005	NA
V2.51.B002	NA
V2.50.B009	NA
V2.50.B004	NA
V2.50.003	NA
V2.50.B002	NA
V2.50.B001	1. DDP per port enabled/disabled via Web page. 2. DDP configuration via Web page.
V2.10.B020	NA
V2.10.B019	NA
V2.10.002	NA
V2.00.015	1. Add IPv6 Function include Ipv6 interface, Ipv6 Neighbor, Ipv6 Static Route, Ipv6 SNTP, Ipv6 Traffic Class, Ipv6 Telnet, Ipv6 SSL,Ipv6 Radius Server,Ipv6 ACL, Ipv6 SNMP,Ipv6 Trust Host,Ipv6 DHCP Server Screen and Ipv6 System log. 2. Change LBD and STP enable limitation from per-System to per-port. 3. LBD spec support D-Link LBD 4.04, when enable LBD interface loop to disable. 4. Add STP function to support MSTP Function. 5. Add Forward BPDU function in STP settings page.

	6. Add Ipv4/Ipv6 SSH Function. 7. Modify EEE Settings from per-System to per-Port settings. 8. Add ToS Priority Function. 9. Add QoS support TCP/UDP Priority. 10. Add Smart Binding Function. 11. Single IP Management support IPv6 address to connect client Web UI.
V1.10.005	NA
V1.10.001	NA
V1.00.018	First Release

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 from 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
V2.51.B007	DGS-1500-28P_AX_2_50_002.mib	NA
V2.51.B006	DGS-1500-28P_AX_2_50_002.mib	NA
V2.51.005	DGS-1500-28P_AX_2_50_002.mib	NA
V2.51.B002	DGS-1500-28P_AX_2_50_002.mib	NA
V2.50.B009	DGS-1500-28P_AX_2_50_001	NA
V2.50.B004	DGS-1500-28P_AX_2_50_001	NA
V2.50.003	DGS-1500-28P_AX_2_50_001	NA

V2.50.B002	DGS-1500-28P_A1_2_00_008.mib	NA
V2.50.B001	DGS-1500-28P_A1_2_00_008.mib	NA
V2.10.B020	DGS-1500-28P_A1_2_00_008.mib	NA
V2.10.B019	DGS-1500-28P_A1_2_00_008.mib	NA
V2.10.002	ZoneDefense.mib DGS-1500-20_AX_2_00_008.mib	NA
V2.00.015	**ZoneDefense.mib** DGS-1500-28P_AX_2_00_008.mib	MIB support IPv6 funcitonal settings. 1. Add IPv6 Function include Ipv6 interface, Ipv6 Neighbor, Ipv6 Static Route, Ipv6 SNTP, Ipv6 Traffic Class, Ipv6 Telnet, Ipv6 SSL,Ipv6 Radius Server,Ipv6 ACL, Ipv6 SNMP,Ipv6 Trust Host,Ipv6 DHCP Server Screen and Ipv6 System log. 2. Change LBD and STP enable limitation from per-System to per-port. 3. LBD spec support D-Link LBD 4.04, when enable LBD interface loop to disable. 4. Add STP function to support MSTP Function. 5. Add Forward BPDU function in STP settings page. 6. Add Ipv4/Ipv6 SSH Function. 7. Modify EEE Settings from per-System to per-Port settings. 8. Add ToS Priority Function. 9. Add QoS support TCP/UDP Priority. 10. Add Smart Binding Function. 11. Support Zone Defense MIB settings to deny all ports ingress IP address. (Only support IPv4 address deny settings)

V1.10.005	DGS-1500-28P_AX_1_00_010.mib	NA
V1.10.001	DGS-1500-28P_AX_1_00_008.mib	NA
V1.00.018	DGS-1500-28P_A1_1_00_010.mib	First Release

Firmware Version	D-View Module File	New Features
V2.51.B007	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.51.B006	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.51.005	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.51.B002	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.50.B009	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.50.B004	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.50.003	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.50.B002	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.50.B001	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.10.B020	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA

V2.10.B019	DV_DGS-1500-28P_V1.0.0.7_FW_V2.00.015.exe	NA
V2.10.002	DV_DGS-1500-28P_V1.0.0.7_FW_V2.10.002.exe	NA
V1.10.005	DV_DGS-1500-28P_V1.0.0.7_FW_V1.00.013.exe	NA
V1.10.005	DV_DGS-1500-28P_V1.0.0.7_FW_V1.00.013.exe	NA
V1.10.001	DV_DGS-1500-28P_V1.0.0.7_FW_V1.00.013.exe	NA
V1.00.018	DV_DGS-1500-28P_V1.0.0.4_FW_V1.00.018.exe	First Release

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
V2.51.B007	NA
V2.51.B006	NA
V2.51.005	NA
V2.51.B002	NA
V2.50.B009	NA
V2.50.B004	NA
V2.50.003	NA
V2.50.B002	NA
V2.50.B001	NA
V2.10.B020	NA
V2.10.B019	NA

V2.10.002	NA
V2.00.015	NA
V1.10.005	NA
V1.10.001	NA
V1.00.018	First Release

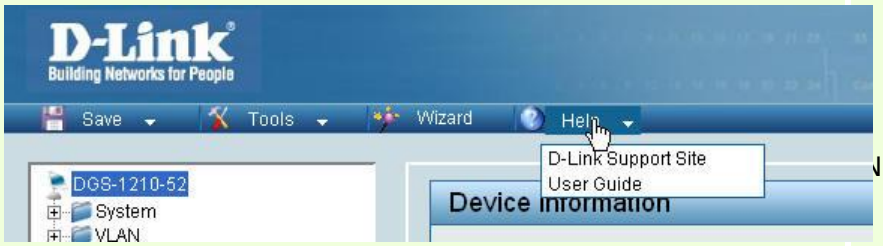
Problem Fixed:

Firmware Version	Problems Fixed
V2.51.B007	1. **Security Vulnerabilities Addressed:** OpenSSL 0.9.8x does not properly restrict processing of ChangeCipherSpec messages, which allows man-in-the-middle attackers to trigger use of a zero-length master key in certain OpenSSL-to-OpenSSL communications, and consequently hijack sessions or obtain sensitive information, via a crafted TLS handshake, aka the "CCS Injection" vulnerability. **Reference:** CVE-2014-0224 http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-0224 https://www.openssl.org/news/secadv_20140605.txt **Solution:** Updated code to fix vulnerability
V2.51.B006	1. [Reboot alone after vlan + ip interface configuration[DEUR20140612000006-South Europe]] 2. [DRU20140704000004-Russia]DGS-1500 issue with OSPF packets tagging.
V2.51.005	1. [DEUR20140429000003-Eastern Europe] RFC3580 radius attribute mismatch. 2. [DRU20140512000003-Russia] DGS-1500-20 issue with device reboot.
V2.51.B002	1.[DRU20140326000004-Russia]DGS-1500 issue with ARP Flood. 2.[DEUR20140320000006-Central Europe]DGS-1500-28 the network traffic will slow down and later no more traffic is possible. 3.[DI20140305000005-India]For DGS-1500-28 Not able to create ip interface with subnet mask /30.
V2.50.B009	1. Add New default MAC (B0C5540 ~ B0C5547) for ASV. 2. Modify ASV MAX OUI number to 10. 3. [DI20140205000006-Japan]Fixed system up time issue. 4. [DRU20140120000004]DES-1210-28 issue with ACL.
V2.50.B004	1. HQ20131128000015 [DEUR20131118000008-North Europe] Fixed Time profile select week day could be over night.
V2.50.003	1. Enhance DDP to 0.24 2. ACL and QOS page modify. 3. [DRU20131101000002-Russia]Fix telnet issue that DUT with reboot during telnet session. 4. [DI20131031000001-Japan]DGS-1210 does send frames of loopdetect. 5. [DGC20131016000004-Taiwan]DGS-1210-52 with recovery system issue. 6. HQ20130402000005 [DRU20130401000001-Russia]: DGS-1500 series support enhance route.
V2.50.B002	Fixed Time profile could be over night.

V2.50.B001	N/A
V2.10.B020	1. [Support Request] Fix Ping / Login Failure issue in SmartSW series. Note: After confirm with D-LINK Shan, this issue can not find out the correct D-track no. and will keep asking the result for the latest firmware. 2. [DEUR20131008000003-Central Europe] Fixed not able to set STP external cost on Port 9&10 in LAG 3. [DI20130913000003-Japan] Customer has a question about SNMP v1 trap about Enterprice OID and agent-Address. 4. [DI20131017000001-Japan] SNMP trap overlapping. 5. [DI20131023000005-Japan] RSTP switch back will cause network disconnection.
V2.10.B019	1. Fix D-Track [HQ20130723000007][DEUR20130722000012-South Europe] : Ping failed issue. 2. Fix D-Track [DRU20130812000001-Russia]:- Static router port cannot update into multicast forwarding table in some case.
V2.10.002	1. Fix the bug of JMicron NIC EEE Compatibility test with Marvell Solution. 2. Fix SFP interface compatibility issue. 3. Change EEE default config to disabled. 4. Fix "IEEE802.3az EEE settings" issue at multi-language. 5. Fix "Static MAC" issue at multi-language.
V1.10.005	1. Download switch configuration without authentication. 2. Routing Table Finder issue. 3. Maximum static route (32 entries) warning message issue. 4. Static Route doesn't work on trunk. 5. Fixed a lot of Simplified Chinese wording error. 6. Fixed Hyperlink issue at the DeviceInfo page.
V1.10.001	1. Added in additional MAC address range(28107B 000000 ~ 28107B 3FFFFF) for the ASV function 2. Revised Static Route settings: (1) Support Default Route on All interfaces. (2) Members of all interface VLAN will be added as static route rule member, to fix the host which is in the same VLAN with Gateway can not connect to WAN. 3. Revised Static ARP settings: (1) Add “delete” button on ARP table for user to delete selected ARP entries. (2) Add some information on the ARP table to identify ARP entry (like active/inactive). (3) Support learn Dynamic ARP packets for Route
V1.00.018	First Release
V1.00.013	First Release

* D-Link tracking number is enclosed in ()

Known Issues:

Firmware Version	Issues	Workaround
V2.51.B007	None	None
V2.51.B006	None	None
V2.51.005	None	None
V2.51.B002	None	None
V2.50.B009	None	None
V2.50.B004	None	None
V2.50.003	None	None
V2.50.B002	None	None
V2.50.B001	None	None
V2.10.B020	None	None
V2.10.B019	None	None
V2.10.002	None	None
V1.10.001	None	None
V1.00.018	**1.** We found that the setting can not choose in Chrome and Safari Browser.  **2.** DUT IP will back to default 10.90.90.90 after all port interface link down then link up. **3.** DUT IP will also back to default 10.90.90.90 after DHCP lease passed.	None

Related Documentation:

- DGS-1500-28P Series User Manual
- DGS-1500-28P Series Getting Started Guide