



**Firmware Version:** 2.51.005  
**Boot Code Version:** 1.00.015  
**MIB Version:** 2.50.002  
**D-View Module Version:** 2.0.0.4  
**Published:** Sept. 17, 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" 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 [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: .....	2
Upgrade Instructions: .....	2
Upgrade using CLI (via Telnet).....	2
Upgrade using Web-UI.....	3
Upgrade using SmartConsole Utility.....	6
New Features:.....	9
Changes of MIB & D-View Module: .....	9
Changes of Command Line Interface: .....	11
Problem Fixed: .....	12
Known Issues: .....	12
Related Documentation: .....	13

## Revision History and System Requirement:

Firmware Version	Date	Model	Hardware Version
Runtime: v2.51.005 Boot: 1.00.015	17-Sept.-14	DGS-1500-28P	A1/A2
Runtime: v2.50.008 Boot: 1.00.013	17-Feb.-14	DGS-1500-28P	A1
Runtime: v2.10.002 Boot: 1.00.013	05-Nov.-12	DGS-1500-28P	A1
Runtime: v2.00.015 Boot: 1.00.013	27-June.-12	DGS-1500-28P	A1
Runtime: v1.10.005 Boot: 1.00.011	23-Feb.-12	DGS-1500-28P	A1
Runtime: v1.00.018 Boot: 1.00.010	08-Nov.-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\_1\_00\_011.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, 1 hrs, 8 min, 36 secs
System Time	: 04/07/2011 01:58:42
System hardware version	: A1
System firmware version	: 1.00.013
System boot version	: 1.00.009
System Protocol version	: 2.001.004
System serial number	: 00SQA15002088
MAC Address	: 00-15-00-20-08-88

### 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.

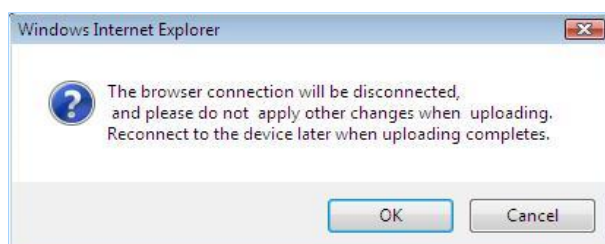


5. Two methods can be selected : **HTTP** or **TFTP**

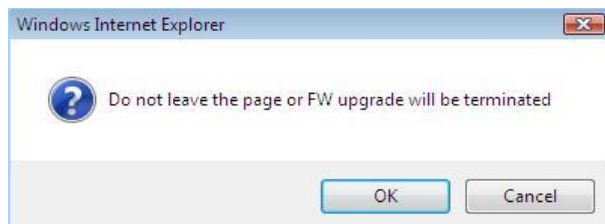


6. Select **HTTP** to upgrade the firmware to or from your local drive of PC.

- a. Click **Browse** to browse your inventories for a saved firmware file
- 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

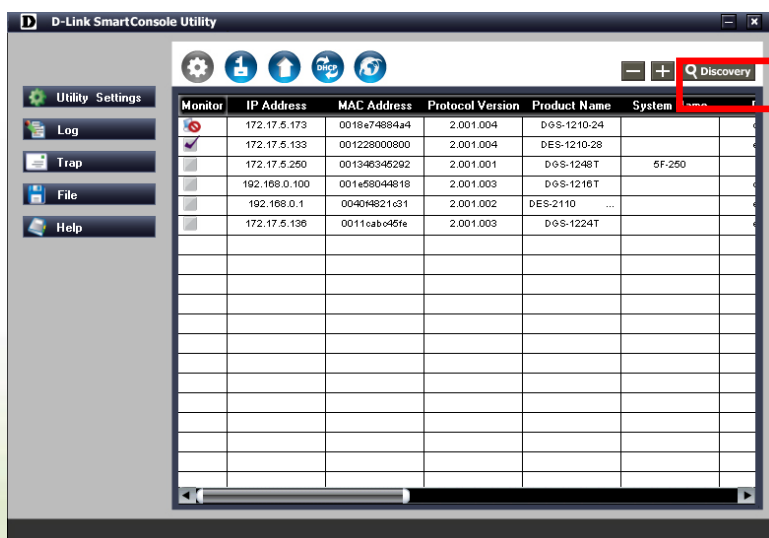
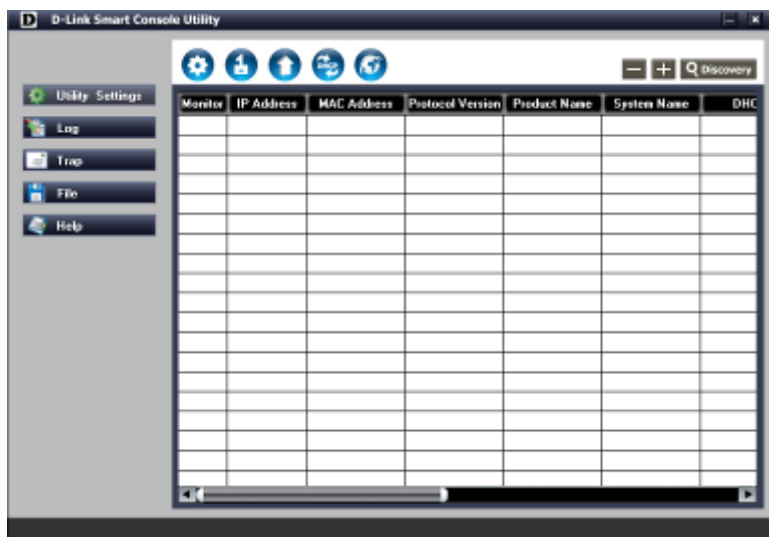


d. Wait until the firmware upgrade ends and login again after device boots up.

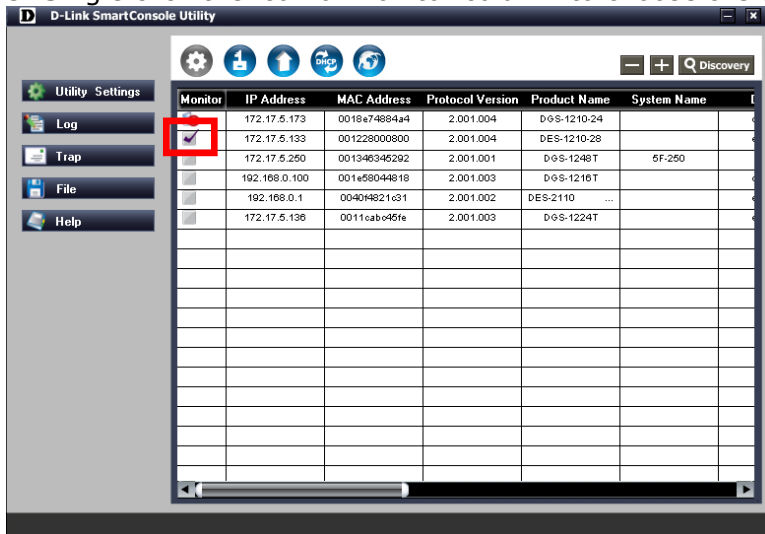


## Upgrade using SmartConsole Utility

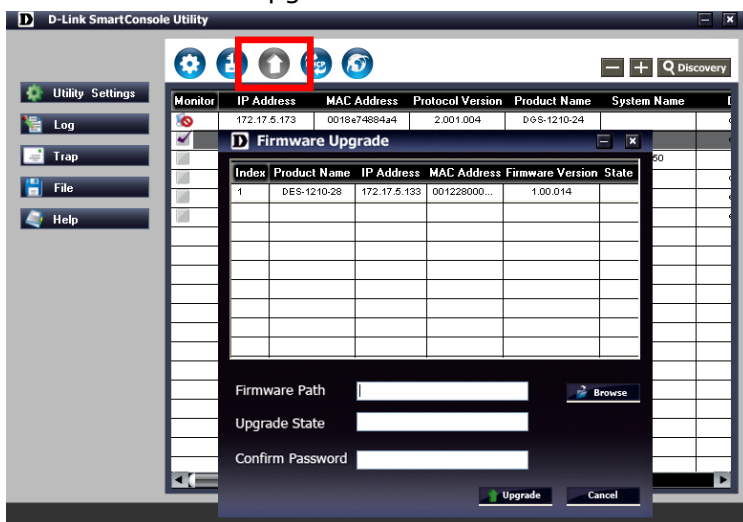
1. Connect a workstation installed with java SE runtime environment to any switch port of the device
2. Execute SmartConsole Utility



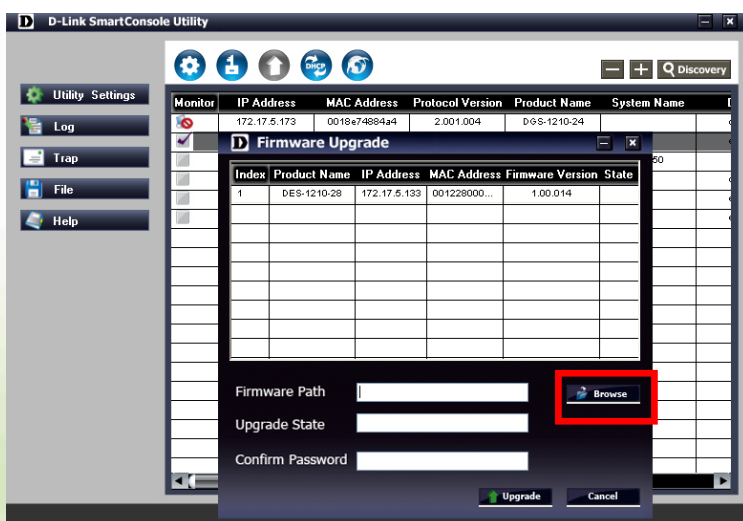
3. Single click the icon of Monitor column to choose the target switch

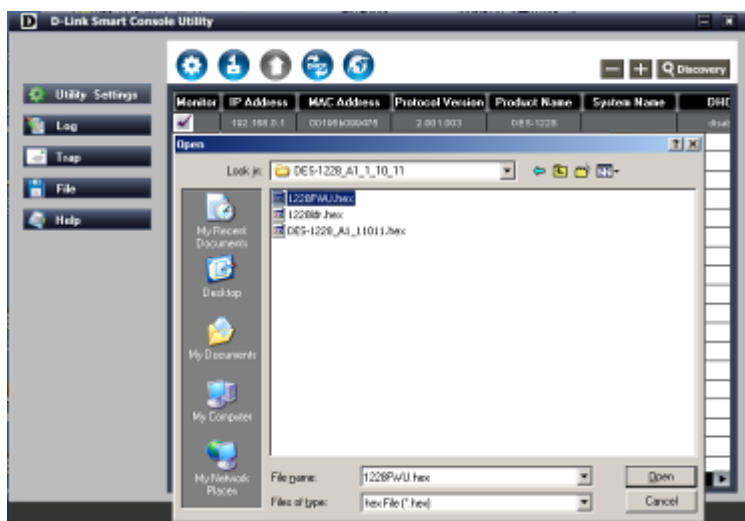


4. Click Firmware Upgrade button

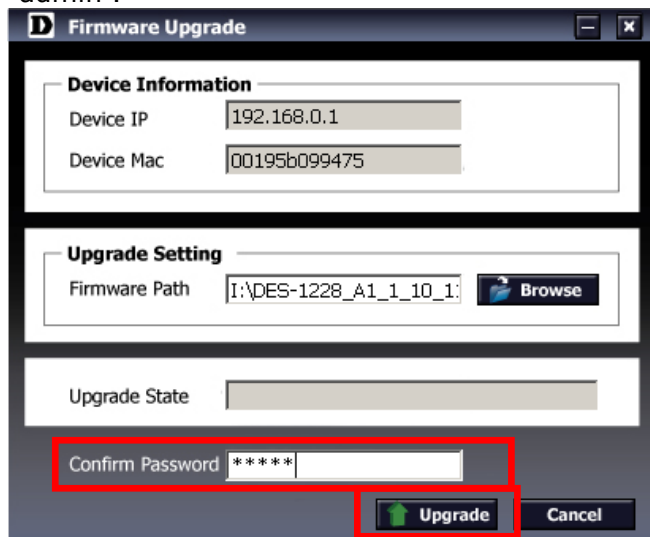


5. Click Browse button and select the firmware file (Model name\_HW ver.\_FW ver. .hex) on your local hard drive.

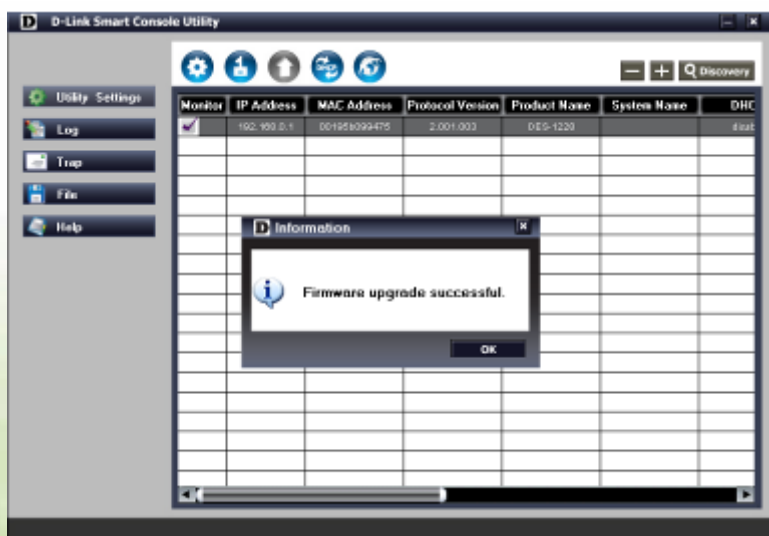




6. Enter password and click "Upgrade" button to start firmware upgrade. The default password is "admin".



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





## New Features:

Firmware Version	New Features
V2.51.005	<ol style="list-style-type: none"> <li>Added new MAC addresses (B0C5540 ~ B0C5547) for Auto-Surveillance VLAN (ASV)</li> <li>Modify ASV Max. OUI number to 10</li> </ol>
V2.50.008	<ol style="list-style-type: none"> <li>Updated ZoneDefense to V2.1 (support MIB only)</li> <li>Duplicate Address Detection</li> <li>Added ACL Rule MIB</li> </ol>
V2.10.002	Add EEE configuration page and change the default setting to disable
V2.00.015	<ol style="list-style-type: none"> <li>Virtual Stacking (SIM) over IPv6</li> <li>ACL policy over IPv6 (supported ACL packet contents: IPv6 address, and IPv6 traffic class)</li> <li>RADIUS Server over IPv6</li> <li>DHCP Server Screening over IPv6</li> <li>SSHv2 over IPv4/IPv6</li> <li>SSL over IPv6</li> <li>Static Route over IPv6 (Max. 16 IPv6 static route entries, max. 64 host route)</li> <li>Web-based GUI over IPv6</li> <li>TFTP client over IPv6</li> <li>SNMP v1/2c/3 over IPv6</li> <li>BootP/DHCP client over IPv6</li> <li>SNTP over IPv6</li> <li>Support 802.1s MSTP</li> <li>Support Type of Service (ToS) and queue mapping function</li> <li>Support Smart Binding (similar with IMPB v3.8)</li> <li>Support IPv6 Neighbor Discovery(ND)</li> <li>Support IPv4/IPv6 dual stack</li> <li>Certified with IPv6 Core Ready Logo Phase II</li> </ol>
V1.10.005	<ol style="list-style-type: none"> <li>Static ARP settings:               <ol style="list-style-type: none"> <li>Add "delete" button on ARP table for deleting selected ARP entries.</li> <li>Add descriptions for ARP entries in ARP table.</li> </ol> </li> <li>Add new pre-defined MAC range (28107B 000000 ~ 28107B 3FFFFFFF) of D-Link IP camera for the ASV function.</li> </ol>
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
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V2.50.008	ZoneDefense.mib DGS-1500-20_A1_2_50_002.mib DGS-1500-28_A1_2_50_002.mib DGS-1500-52_A1_2_50_002.mib	NA
V2.50.008	ZoneDefense.mib DGS-1500-28P_A1_2_50_002.mib	Enhance Zone Defense MIB to 2.1 2. Add object "aclL2RulePriority", "aclL2RuleReplacePriority", "aclL3RulePriority", "aclL3RuleReplacePriority", "aclv6L3RulePriority" and "aclv6L3RuleReplacePriority" for ACL.
V2.10.002	DGS-1500-28P_AX_2_00_008.mib ZoneDefense.mib	NA
V2.00.015	ZoneDefense.mib  DGS-1500-28P_AX_2_00_008.mib	The ZoneDefense feature of DGS-1500 series will work with firewall till 1Q 2013.  <ol style="list-style-type: none"> <li>1. ACL policy over IPv6 (supported ACL packet contents: IPv6 address, and IPv6 traffic class)</li> <li>2. RADIUS Server over IPv6</li> <li>3. DHCP Server Screening over IPv6</li> <li>4. SSHv2 over IPv4/IPv6</li> <li>5. SSL over IPv6</li> <li>6. Static Route over IPv6 (Max. 16 IPv6 static route entries, max. 64 host route)</li> <li>7. TFTP client over IPv6</li> <li>8. SNMP v1/2c/3 over IPv6</li> <li>9. BootP/DHCP client over IPv6</li> <li>10. SNTP over IPv6</li> <li>11. Support 802.1s MSTP</li> <li>12. Support Type of Service (ToS) and queue mapping function</li> <li>13. Support Smart Binding (similar with IMPB v3.8)</li> <li>14. Support IPv6 Neighbor Discovery(ND)</li> </ol>
V1.10.005	DGS-1500-28P_A1_1_00_008.mib	NA
V1.10.018	DGS-1500-28P_A1_1_00_010.mib	First Release

Firmware Version	D-View Module File	New Features
V2.51.005	D-view_DGS-1500-28P_2.0.0.4_FW_2.51.005.exe	NA
V2.50.008	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_V1.00.013.exe	NA
V2.00.015	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
V1.00.018	DV_DGS-1500-28P_V1.0.0.7_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
V2.51.005	NA
V2.50.008	NA
V2.10.002	NA
V2.00.015	Support 4 additional IPv6 commands(Ping, IP Configure, Upload F/W & Config file via TFTP and Download F/W & Config file via TFTP)
V1.10.005	NA
V1.00.018	First Release

## Problem Fixed:

Firmware Version	Problems Fixed
V2.51.005	<ol style="list-style-type: none"> <li>1. Fixed D-view module bug due to wrong OID (updated to version 2.0.0.4)</li> <li>2. Fixed RFC3580 radius attribute mismatch bug (DEUR20140429000003)</li> <li>3. Fixed the switch rebooting bug when using LAN Surveyor software (DRU20140512000003)</li> <li>4. Fixed ARP flooding bug (DRU20140326000004)</li> <li>5. Fixed network disconnection that stops forwarding packets bug (DEUR20140320000006)</li> <li>6. Fixed ip interface in /30 subnet mask bug (DI20140305000005)</li> <li>7. Fixed system up time bug (DI20140205000006)</li> <li>8. Fixed ACL can't create ip mask 0.0.0.0 bug (DRU20140120000004)</li> </ol>
V2.50.008	<ol style="list-style-type: none"> <li>1. Enhanced DDP to V0.24</li> <li>2. ACL &amp; QoS page modification</li> <li>3. Fixed switch rebooting if telnet session has different window size parameters (DRU20131101000002)</li> <li>4. Fixed LBD bug (DI20131031000001)</li> <li>5. Fixed DDP packet conflict issue with customer's computer proprietary systems (DGC20131016000004)</li> <li>6. Fixed Routing behavior &amp; LACP issue (DRU20130401000001)</li> <li>7. Fixed Time profile bug for shutting off switch's LEDs (DEUR20131118000008)</li> <li>8. Fixed ping aging time bug (DEUR20130722000012)</li> <li>9. Fixed dynamic ARP bug (DEUR20140128000002 &amp; DI20130613000005)</li> </ol>
V2.10.002	Link failed when using a Kinston mini GBIC to connect a DGS-1210-28 and DGS-3028F. (DGC20120913000002)
V2.00.015	NA
V1.10.005	<ol style="list-style-type: none"> <li>1. Fixed the problem that the Static Route cannot work when Trunk is enabled. (DEUR20111111000005)</li> <li>2. Fixed the problem that Static Route cannot ping others VLAN interface IP. Static Route behavior changes to the dynamic learning of ARP packets for routing, so there is unnecessary to manually add host in Static ARP table. (DEUR20120207000002)</li> <li>3. Fixed the problem that the host which is in the same VLAN with Gateway cannot connect to Internet. (DEUR20111025000008)</li> <li>4. Fixed the interoperability issue with DES-1005P. (DEUR20120127000001)</li> <li>5. Prohibited the unauthorized users to modify or edit the switch (E.g. Configure download/restore). (DEUR20120111000005)</li> <li>6. Fixed the problem that there is no upper logo shown on the banner of any Web languages except for English (DEUR20120312000004)</li> </ol>
V1.00.018	First Release

## Known Issues:

Firmware Version	Issues	Workaround
V2.10.002	<ol style="list-style-type: none"> <li>1. When connecting to Intel 82579 LM LAN controller in EEE mode, the link went up and down for a minute and then became stable. (DGC20120823000001)</li> <li>2. When connecting to Jmicron JMC251A LAN controller in EEE mode, the link speed might drop to 100Mbps.</li> </ol>	<ol style="list-style-type: none"> <li>1. Updating to the latest Intel driver and the link will become</li> </ol>

	(DGC20120820000003)	<p>stable in EEE enabled mode. Or disable EEE function on the switch.</p> <p>2. The early version of JM251A didn't comply with IEEE802.3az EEE standard. Please disable the EEE function on the switch for normal connection.</p>
V2.00.015	<p>3. IPv6 SSL doesn't work on the following browser. Firefox10 ~13 Safari 5.1.2 ~ 5.1.7 Chrome 17.0.963 ~ 20.0.1132</p> <p>4. The F/W v2.00.015 does not support sending trap to the previous SmartConsole utility v2.10.05. Please upgrade to the latest SmartConsole utility v3.00.10.</p>	None
V1.10.015	None	None
V1.00.018	<p>1. The settings as shown below cannot be chosen on Chrome and Safari Browser.</p>  <p>2. DUT IP will be back to default IP address 10.90.90.90 under below conditions:</p> <ul style="list-style-type: none"> <li>- All ports link status changed from link down to link up.</li> <li>- After DHCP lease passed.</li> </ul>	None

## Related Documentation:

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