DGS-3100 Series Firmware Release Notes



D-Link

Firmware Version: 3.00.43 Prom Code Version: v1.01.04 Published: Aug 15, 2009

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 <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 our switch 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 |
|--------------------------------------|-----------|---------------|------------------|
| | 15-Aug-09 | DGS-3100-24 | A1, A2 |
| | | DGS-3100-24P | A1 |
| Runtime: v3.00.43 Prom: v1.01.04 | | DGS-3100-48 | A1, A2 |
| | | DGS-3100-48P | A1 |
| | | DGS-3100-24TG | A1, A2 |
| | 25-Apr-09 | DGS-3100-24 | A1, A2 |
| | | DGS-3100-24P | A1 |
| Runtime: v2.50.43 Prom: v1.0.1.01 | | DGS-3100-48 | A1, A2 |
| | | DGS-3100-48P | A1 |
| | | DGS-3100-24TG | A1, A2 |

Upgrade Instructions:

Caution: The Prom version 1.01.xx only works with firmware version 2.50.xx and above. Direct upgrade from any version prior to v2.50.xx is not suggested and may result in unknown issues.

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: 9600
- 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_fromTFTP <ipaddr> <path_filename 64=""> {image_id <int 1-2="">}]</int></path_filename></ipaddr> | Download firmware file from the TFTP server to the switch. |
| | config firmware image_id <1-2> [delete boot_up] | Change the boot up image file. |
| | show firmware_information | Display the information of current boot image and configuration. |
| | reboot | Reboot the switch. |
| 10 | <u>操</u> | |

Example:

```
1. DGS-3100# download firmware 172.17.5.23 dgs_31xx_gen-30043.ros
12-Jan-2000 06:39:54 %COPY-I-FILECPY: Files Copy - source URL
tftp://172.17.5.23/dgs_31xx_gen-30043.ros destination URL Unit all
flash://image
completed successfully
!
```

Copy: 4330644 bytes copied in 00:02:58 [hh:mm:ss]

2. DGS-3100# show firmware information

Command: show firmware information

| Unit | Image | Version | Update Time | |
|------|-------|---------|-------------|----------|
| | | | | |
| 1 | 1 | 3.00.42 | 27-Apr-2009 | 15:40:50 |
| 1 | *2 | 3.00.43 | 09-Jul-2009 | 17:03:43 |

"*" designates that the image was selected for the next boot

3. DGS-3100# reboot

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This action may take a few minutes You haven't saved your changes. Are you sure you want to continue ? (Y/N)[N] Y Are you sure you want to proceed with system reboot now? (Y/N)[N] Y

To upgrade the switch's Prom, execute the following commands:

| Command | Function |
|---|---|
| download [boot <ipaddr> <path_filename 1-64="">]</path_filename></ipaddr> | Downloads a boot file from a TFTP server. |
| reboot | Reboot the switch. |

1. DGS-3100# download boot 172.17.5.23 dgs_31xx_boot-10104.rfb
01-Jan-2000 02:21:47 %COPY-I-FILECPY: Files Copy - source URL
tftp://172.17.5.23/dgs_31xx_boot-10104.rfb destination URL Unit all
flash://BOOT

2. DGS-3100# reboot

```
This action may take a few minutes
You haven't saved your changes. Are you sure you want to continue ? (Y/N)[N]
Y
Are you sure you want to proceed with system reboot now? (Y/N)[N] Y
```

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 username and password when prompted. It should be noted that the username and password are blank by default.
- 4. To update the switch's firmware or configuration file, click **Tools > Firmware Download**

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|---|---|
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| Address 🙋 http://172.17.5.212/home.ht | htm 🗾 🗾 🔂 unks * |
| D-Link Building Networks for People | |
| 🔚 Save 🍒 Tools 🔻 Stack ID | u Dp Time: 42 days 23:45:57 💲 Logged in as administrator - 172.17.5.157 🔀 Logou |
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| | C TFTP Download |
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| | Server IP : |
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| STACKING STATUS | |
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- 5. The Firmware Download page allows firmware download via HTTP or TFTP; please choose one to update the switch's firmware.
- 6. If you choose HTTP download, enter the firmware file name and associated path on your computer. If you choose TFTP download, enter the TFTP server IP and the firmware file name.
- 7. If the switch is under stacking mode, select the unit ID 'all' to update the firmware for all switches in the stack.
- 8. Click "Download" button.
- 9. Wait until the file Transfer status becomes "Copy Finished".



| D-Link Building Networks for People | Plink Massed Smith - Row - Cristion - C | | e: 7 days 2:06:53 | | |
|--|--|-----------------|-------------------|---|-----------|
| | | | | | |
| DGS-3100-24 | Firmware Download | | | _ | Safeguard |
| E L2 Features | | | | | |
| Dos Cos | Copy progress information: | | | | |
| | | | | | |
| Hereiter Monitoring | Status: | Copy Finished | | | |
| | Bytes transferred: | 4432442 None | | | |
| | Error message: | None | | | |
| | Back | | | | |
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10. Reboot the system by clicking **Tools > System Reboot** from the banner and click "System Reboot" button to reboot the switch.

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| 💾 Save 🐒 Tools 🔻 Stack ID 🕴 | 👻 Up Time: 7 days 2:10:23 💄 Logged in as administrat | tor - 172 17 5 61 10 Legent |
| | | |
| DGS-3 Show Stack Status | System Reboot | O Safeguard |
| E Cor Device Locator | | |
| 🗈 🖉 L2 I Config Backup & Restore | | |
| Reset | Ensure you have saved all the configuration, or all the changes you just made may be lost after system reboot ! | |
| Sec Firmware Download | Ensure you have saved an are configuration, or an are changed you just made may be role and system report. | |
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| | Select Unit to Reboot | |
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| | System Reboot | |
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New Features:

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| - | Firmware Version | Ne | w Features |
|---|------------------|----|---|
| | | 1 | ARP Spoofing Prevention |
| | | 2 | DHCP Relay with Option 82 |
| | | 3 | Asymmetric VLAN |
| | | 4 | LLDP disabled by default |
| | | 5 | Be able to configure static ARP entry for multicast MAC address |
| | | 6 | Display the real port count when querying RFC1213 ifTable |
| | | 7 | Be able to configure Traffic Segmentation with multiple source and forwarding ports |
| | | 8 | The target mirror port can forward traffic and be assigned to default VLAN |
| | | 9 | Provide more detailed information while executing 'show safeguard' command |
| | | 10 | Be able to display the default configuration of all features |
| | v3.00.43 | 11 | Support three parameters for Port Security's Lock Address Mode : |
| | | | Permanent |
| | | | DeleteOnTimeout |
| | | | DeleteOnReset |
| | | 12 | When enabling SSH, Telnet will be disabled |
| | | 13 | Enhance VLAN Trunking to support up to 48 uplink ports |
| | | 14 | Change the Web UI login behavior for user level authority |
| | | 15 | Expend the Trust Host number to 10 and support the Trust Host Network feature |
| | | 16 | The Web UI will display the trap interval in Port Security Page. |
| | | 17 | Be able to configure Destination Lookup Failure (DLF) for ports |
| | | 18 | Be able to configure the recovery time when port is shut down by loop |
| | | 1 | MLD Snooping v1 and v2 |
| | | 2 | Time Based ACL |
| | | 3 | Enable/Disable Telnet Server |
| | v2.50.43 | 4 | LLDP |
| | | 5 | IGMP Querier |
| | | 6 | Display switch's serial number on the Web UI and CLI |
| | | 7 | VLAN Trunking |
| | | | |

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When enabling this feature, DGS-3100 will pass the traffic with unknown VID to VLAN trunking port instead of dropping it.

- 8 Be able to configure Traffic Segmentation on Management VLAN
- 9 Be able to configure ACL on Link Aggregation Port
- 10 Be able to configure port speed and duplex mode on a Link Aggregation Trunk channel group
- 11 The EAP packet from clients will be flooded by default
- 12 Be able to configure port without assigning stacking ID
- 13 Keep the default route setting when management IP changed
- 14 The unregistered multicast group will be flooded by default
- 15 Disable the Spanning Tree Protocol by default
- 16 When loop is detected, the port will be shut down and after a period of time, the port will automatically recover
- 17 Change the port displaying format. The above figure is the old format and the below one is the latest format.



- 18 Support new parameters for "config access_profile" command
 - Support channel interface parameter: ports [<portlist> |
 <ch1-32>]
 - Support time range parameter: {time_range <range_name 32>}
- 19 Support new parameter for "config ipif system" command
 - Support VLAN name parameter: {dhcp | vlan <vlan_name 32>}]
- 20 Support new parameter for "show router_port" command
 - Support displaying the forbidden port: {vlan <vlan_name 32> | static | dynamic| forbidden}
- 21 Modify the parameter for "config traffic_segmentation" command.

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| | • Support port list for source port: [< portlist > <ch1-32>]</ch1-32> |
|--------------------|--|
| v2.00.47 | Default VLAN can be configured as Tagged VLAN |
| v1.00.36 | |
| (DGS-3100-24/48) | First release. For supported features, please refer to the product |
| v1.00.37 | specification and manuals for details. |
| (DGS-3100-24P/48P) | |

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 |
|------------------|------------------------------|---|
| | rlinterfaces.mib | Support Port Security's new parameters |
| | rlphysdescription.mib | Add new parameters to support LLDP Manufacturer and Model name information |
| | rlSafeGuard.mib | Change the threshold limitation from 999 to 100% |
| | rlvlan.mib | Support Asymmetric VLAN |
| v3.00.43 | rfc2674.mib | This MIB file is replaced by p-bridge-mib.mib and q-bridge-mib.mib |
| | rlimpb_arp_inspection.mib | |
| | rlimpb_features.mib | Support ARP Spoofing Prevention |
| | rlimpbmng.mib | |
| | rldlf.mib | Support DLF feature |
| | rltrafficsegmentation.mib | Support Traffic Segmentation |
| | Banner.mib | Configurable banner information |
| | inet-address-mib.mib | Replace RFC2851.mib due to the chang of standard. This MIB module defines textual conventions for representing Internet addresses. An Internet address can be an IPv4 address, an IPv6 address or a DNS domain name. |
| | lldpextdot3.mib | |
| | lldpextmed.mib | |
| v2.50.43 | diffserv-dscp-tc-rfc3289.txt | Support LLDP |
| | rllldp.mib | |
| | rlphysdescription.mib | |
| | rlVlanTrunking.mib | Support VLAN Trunking |
| | ianaifty.mib | Modify this mib file to follow RFC 1573 which is used as the syntax of the ifTyp object in the (updated) definition of MIB-II's ifTable. |
| | rlinterfaces_recovery.mib | Support the recovery option when loop |
| NV62. | | |
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|--------------------|--|--------------------------------------|--|
| | policy.mib | Support time-based ACL configuration | |
| | rlbrgmulticast.mib | Support IGMP Snooping querier | |
| | rlSafeGuard.mib | Support configuring threshold | |
| v2.00.47 | None | | |
| v1.00.36 | | | |
| (DGS-3100-24/48) | | | |
| v1.00.37 | First release. Please refer to datasheet for supported SNMP MIB file | | |
| (DGS-3100-24P/48P) | | | |

Changes of Command Line Interface:

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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.

| Fireware Version | New Features |
|-------------------------|--|
| | 1 New command to support Asymmetric VLAN |
| | enable asymmetric_vlan |
| | disable asymmetric_vlan |
| | show asymmetric_vlan |
| | 2 New command to support ARP Spoofing Prevention |
| | config arp_spoofing_prevention |
| | show arp_spoofing_prevention |
| | 3 New command to support Destination Lookup Failure (DLF) |
| | config dlf filtering_mode |
| | show dlf filtering_mode |
| v3.00.43 | 4 New command to support DHCP Relay with Option 82 |
| | • enable dhcp_relay |
| | disable dhcp_relay |
| | config dhcp_relay add ipif |
| | config dhcp_relay delete ipif |
| | show dhcp_relay |
| | 5 New command to display default configuration for each function |
| | • show system defaults |
| | 6 New parameter to support creating a subnet of trusted hosts |
| | create trusted_host <ipaddr>{<network_address>}</network_address></ipaddr> |
| state | |
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| | | 7 | Modify Safeguard Engine command to support defining threshold |
|-------|-----------------------|----|--|
| | | | config safeguard_engine {state [enable disable] {rising <value 20-100=""> falling <value 20-100="">}}</value></value> |
| | | 8 | Modify the command "show_safeguard" to "show safeguard_ engine " |
| | | 9 | Remove "enable safeguard" and "disable safeguard" commands |
| | | 10 | Modify Traffic Segmentation command to support configuring multiple source and forwarding ports |
| | | | config traffic_segmentation [<portlist> <ch1-32>] forward_list [<portlist> <ch1-32>]</ch1-32></portlist></ch1-32></portlist> |
| | | 11 | Modify Spanning Tree command to support configuring recovery timer for ports which are shut down by loop |
| | | | config stp {maxage <value 6-40=""> maxhops <value 1-20=""> hellotime <value 1-10=""> forwarddelay <value 4-30=""> fbpdu [enable disable] lbd [enable disable] lbd_recover_timer [<value 30-86400="">]}</value></value></value></value></value> |
| | | 12 | Modify Port Security command to support lock_address_mode's new parameters |
| | | | [<portlist> all] {admin_state [enable disable] max_learning_addr <int 1-64=""> lock_address_mode [Permanent DeleteOnTimeout DeleteOnReset] trap <interval 1-1000000="">}</interval></int></portlist> |
| | | 1 | Change the command "config guest vlan" to "create 802.1x guest_vlan" |
| | | 2 | Change the command "config guest_vlan ports" to "config 802.1x guest_vlan ports" |
| | | 3 | Change the command "show guest_vlan" to "show 802.1x guest_vlan" |
| | | 4 | Change the command "config rate_limit" to "config bandwidth_control" |
| | | 5 | Change the command "show rate_limit" to "show bandwidth_control" |
| | v2.50.43 | 6 | Modify "config snmp system_contact" command's parameter |
| | v2.30. 4 3 | | Describe the allowable character number: <sw_location< li=""> 0-31> </sw_location<> |
| | | 7 | Modify "config snmp system_name" command's parameter |
| | | | Describe the allowable character number: <sw_name< li=""> 0-31> </sw_name<> |
| | | 8 | Change the command "show cpu utilization" to "show utilization" and also add one more parameter |
| | | | • Support two parameters: [ports cpu] |
| | | 9 | Modify the parameter for "traceroute" command. |
| | | | change the packet size from "[size 40-1500]" to "[size |
| 11 | | | |
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| | 40- 1472]″ |
|--------------------|--------------------|
| v2.00.47 | None |
| v1.00.36 | |
| (DGS-3100-24/48) | First release |
| v1.00.37 | |
| (DGS-3100-24P/48P) | |

Problem Fixed:

| Firmware Version | Problems Fixed | | |
|-------------------------|--|--|--|
| | 1 If user changes switch's unit ID to 2 and queries the ifTable MIB file, system will hang up. | | |
| | 2 When user tries to disable Telnet via the Web UI while running the command "show configuration running", the Telnet session will not be disabled and there is no warning message, either. | | |
| v3.00.43 | When user tries to configure 128.0.0.0 subnet mask in Trusted Host feature, the CLI will accept the command but Web UI will display "128.0.0.0 is not a valid IP mask" warning message. | | |
| | 4 In Port Security, when user changes the setting of "lock_address_mode", the value of "admin_stat" will be changed, too. | | |
| | 1 When executing the command 'configure ipif' and key in the '?' to query the next available parameter, it will display 'system' instead of 'System'. | | |
| | 2 Users can only open two web sessions in stacking architecture. | | |
| | 3 Users can configure the stacking port as the LACP port. | | |
| | 4 When configuring Trust Host, Syslog, SNMP, SNTP, Radius and ARP features; Illegal IP address is acceptable without any error or warning message. | | |
| v2.50.43 | 5 When user configures port security with trap enabled on specific ports via CLI and afterwards configures port security on other ports with no trap enabled via Web UI, using the 'show port_security' or 'show configuration running' commands on CLI, the user can see that the trap appears also on the ports configured by the Web (without a trap) | | |
| | 6 When user tries to show VLAN, STP and GVRP information via CLI, the 'q' button doesn't interrupt the displaying when type it. | | |
| | 7 The QoS is not working properly when using queue 3 across the stack. It happens in strict priority and also in WRR, if the user does not use queue 3, everything is working fine. | | |
| | 8 A fatal error happened when there are multiple HTTP connections sending large files at the same time (DI20080627000006). | | |
| | 9 Sometimes when rebooting the Master or Backup Master switch in a | | |
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stack, the stacking may crash (DI20081106000013).

- 10 When configuring the ACL function with more than 100 access IDs, the system will display a warning message "Exceeded the maximum ACE allowed in the system". However, the ACL rules are not running out actually (DI20081028000024).
- 11 When users try to login the Web UI with 'user' privilege, the system will display an "Invalid username or password" error message (DI20080630000017).
- 12 When a client sends an IGMP leave request to one multicast group, another group for that user will be disconnected, too (DI20081001000004).
- 13 When users configure MSTP feature, MSTP can not be configured for non-existing VLAN (DI20080820000010).
- 14 Fix the problem of incorrect statistics number of Port Utilization (DI20080807000011).
- 15 When users connect several clients on several Slave switches and also enable flow control. If clients overload the stacking bandwidth to Master switch, the stacking may break and all switches will reboot to re-build the stacking.
- 16 When executing "show port" command in a single switch, DGS-3100 will always display the maximum interfaces (48 ports multiply with six switches in a stack).
- 1 In current design, the ACL was port based and only support 128 access rules for whole system (though in spec we stated 240 rules support and each rule is system-based) For example, if you configure one ACL in stacking mode and apply it to more than 128 ports, you'll have problem for this function. With firmware version 2.00.47, if user applies a rule for the whole stacking, it will only be counted as 1 rule. For the detail of new ACL mechanism, please refer to the session, "Notes about ACLs capacity in the DGS-3100 Series", in user manual.
- 2 Current system IP only supports classful IP address, such as class A, B or C with associate subnet mask such as /8, /16 or /24, if you configure Class C IP address with wrong subnet mask, say /16(255.255.0.0), you will receive an error message saying that the mask is illegal.
- 3 When user configures ACL to change the 802.1p packet priority, the system will not map the packet to the right queue.
- 4 When user is copying and pasting a group of long commands, some of the commands will not work.
- 5 When typing: 'show fdb aging time' and '?' afterwards system will display other options. Actually, there shouldn't be additional values in this command
- 6 When user deletes access profile through the web, the profile details will remain.
- 7 Users can not configure more than 5 user accounts via the Web UI.
- 8 When user configures ACLs on the Web UI, the system will not check the TCP Flag parameter which is configured as "unset (0)"

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| | and will only check the parameter "set (1)". 9 When pasting commands, the prompt will be displayed in the wrong position. 10 When configuring MAC_base_access_control and copying the configuration file to TFTP server. The function will not work when user restore the configuration file back to the switch. 11 If the user configures a port to guest VLAN and also configures the port as untagged in the same VLAN, the port will not belong to any VLAN after the user changes the "port control" to "force authorize" state 12 When user tries to create an IP access profile with mask of all "0" The system will accepted it. | |
| v1.00.36 (DGS-3100-24/48) v1.00.37 (DGS-3100-24P/48P) | First release | |

* D-Link tracking number is enclosed in ()

Known Issues:

| | Firmware Version | Issues | Workaround |
|-------|---------------------|---|--|
| | v3.00.43 | The LLDP TLV information, the port ID and "local" subtype, displays Hex string in Web UI (DI20090330000015) | User can see alphanumeric string in CLI. |
| | v2.50.43 | None | |
| | v2.00.47 | 1 It is impossible to activate the third web session | Two web sessions work properly within the stack, in standalone mode there is no problem at all. |
| | | 2 It is possible to configure the stacking port (port 49, 50) as LACP port. | The stacking port will still be a stacking even though it was configured as a LACP port. The LACP configuration does not take effect. |
| | | 3 The user can configure illegal IP address for several features, like "Trust Host", "Syslog", "SNMP", "SNTP", "Radius" and "ARP", without any warning message. | There is no problem if the user configures correct IP addresses |
| | | 4 When configuring "ipif", the switch displays "system" but not "System" | It is displaying problem and no effect on the functionality. |
| | | 5 Dynamic VLAN is not displayed in the VLAN page when the browser is in security level high or medium-high. | It was tested with IE7, it works fine if lowering browser's security level |
| | | 6 If the user configures port security on | None |
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| | | specific ports via the CLI and configures trap on these ports and afterwards configures port security on other ports from the web without a trap, using the show port_security and show configuration running commands on CLI, the user can see that the trap appears also on the ports configured by via the web (without a trap) | |
|--|---|--|--|
| | 7 | When user tries to show VLAN, STP and GVRP information via CLI, the 'q' button does not interrupt the displaying when you type it. For example: when you typed "show GVRP ?", the PORTLIST + LAG list was printed, typed "q" to stop displaying but the rest of the LAGs were printed any way. | It does not affect the switch functionality. |
| | 8 | QoS does not work properly when using queue 3 across the stack. It happens in strict priority and also in WRR. When the user does not use queue 3 everything works fine. | Do not use queue 3 under stacking topology |
| * D-Link tracking number is enclosed in () | | | |

Related Documentation:

- DGS-3100 Series User Manual v3.0
- DGS-3100 Series CLI Manual v3.0
- DGS-3100 Series Hardware Installation Guide v3.0

