



Firmware Version: 1.02.002
Boot Code Version: 1.00.001
MIB Version: 1.02.002
Published: Sep. 1, 2024

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 and technical documentation from <http://tsd.dlink.com.tw>.

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Revision History and System Requirement:

Firmware Version	Date	Model	Hardware Version
Runtime: V1.02.002 Boot: 1.00.001	23-May.-2024	DMS-1250-10S/10SP/12TP/10SPL	A1
Runtime: V1.00.010 Boot: 1.00.001	11-Sep.-2023	DMS-1250-10S/10SP/12TP	A1
Runtime: V1.00.008 Boot: 1.00.001	13-June.-2023	DMS-1250-10S/10SP	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 (via Console or Telnet)

1. If you use Telnet, please make sure the network connection between the switch and PC is active. If you use Console, please use "Serial to USB" cable connect switch console port and PC USB interface.

2. Via Telnet: 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*.

Via Console: Use software that supports serial communication, for example, HyperTerminal, Putty or SecureCRT to connect switch console port with band rate **115200**.

3. The logon prompt will appear.

The switch will prompt the user to enter his/her username and password. Both the default user name and password are **"admin"**.

The switch not support to upgrade current startup image id, will automatically upgrade to another image id.

To upgrade the switch firmware, execute the following command:

Command	Function
<code>copy tftp://LOCATION/SOURCE-URL</code>	Download firmware file from the TFTP server to the switch.

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

```
Switch# copy tftp://10.90.90.99/DMS-1250-SERIES-V1-00-008-FW.hex
TFTP Firmware Upgrade processing.....Do not power off!!
Firmware upgrade successfully!
Switch#
```

4. Select image id that was successful upgrade firmware as next start up image id, reboot system and execute the following command to check the firmware version and switch's information.

Command	Function
<code>show switch</code>	Display the information of current firmware and boot version.
<code>show firmware</code>	Display the information of the image or firmware.

Example:

```
1. Switch# copy tftp://10.90.90.99/DMS-1250-SERIES-V1-00-008-FW.hex
TFTP Firmware Upgrade processing.....Do not power off!!
Transferring firmware..... 10%
Firmware upgrade successfully!
```

Switch#

2. Switch# **show switch**

Device Information

```
Device Type      : DMS-1250-10S Multi-Gigabit Ethernet Smart Managed Switch
System Name      : Switch
System Location   :
System Contact    :
Boot PROM Version : 1.00.001
Firmware Version  : V1.00.008
Hardware Version  : A1
MAC Address       : 00-12-55-99-00-78
IP Address        : 10.90.90.90
Mask              : 255.0.0.0
Gateway           : 0.0.0.0
System Time       : 01/01/2023 00:00:52
Serial Number     : QQABC12345600
```

Switch#

3. Switch# **show firmware**

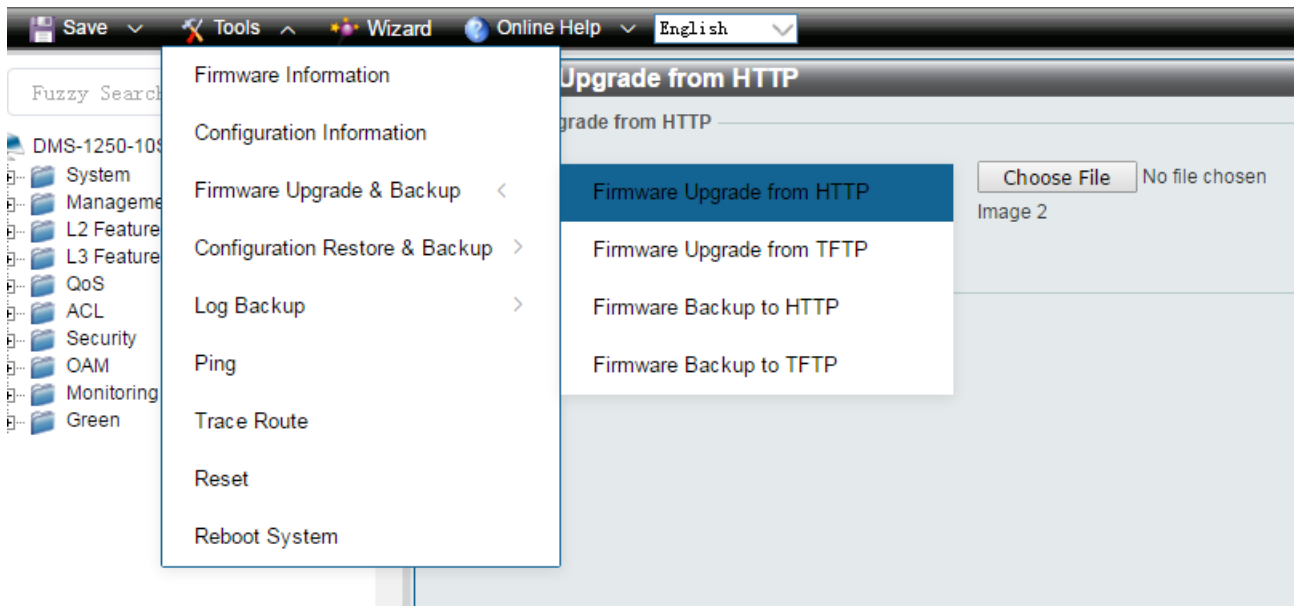
Image ID	Version	Size(B)	Update Time
*1c	V1.00.008	13078080	01/01/2023 00:00:00
2	V1.00.008	13078080	01/01/2023 00:00:00

c : Current boot up firmware

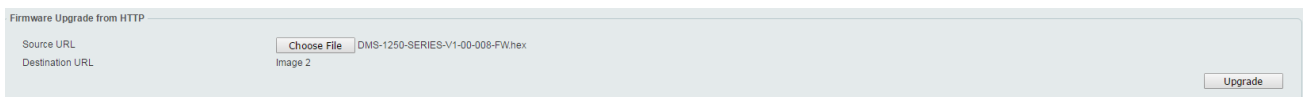
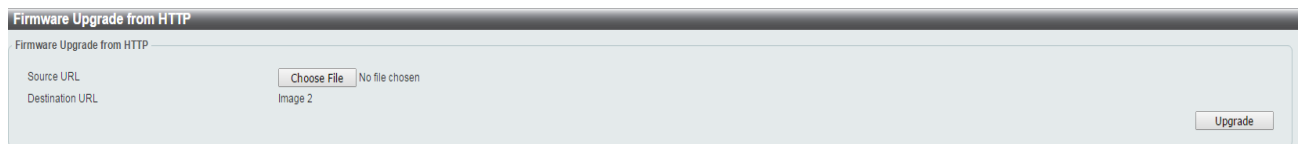
* : Boot up firmware

Upgrade using Web-UI

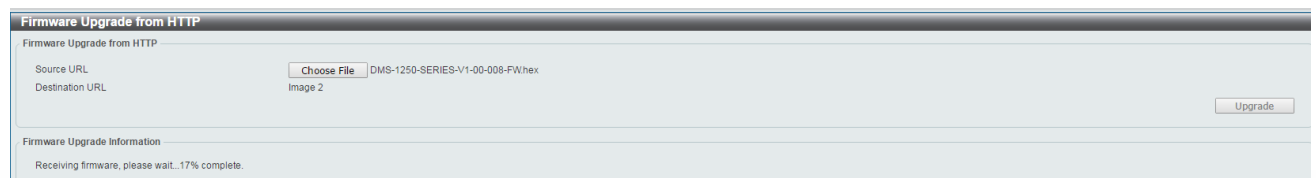
1. Connect a workstation to any switch port of the device.
2. Open the web browser from the workstation and enter the IP address of the switch. The switch's default IP address is 10.90.90.90.
3. Press OK to login. Both the username and password are **"admin"** by default.
4. To update switch's firmware or configuration file, select **Tools > Firmware Backup & Upgrade** from the banner.



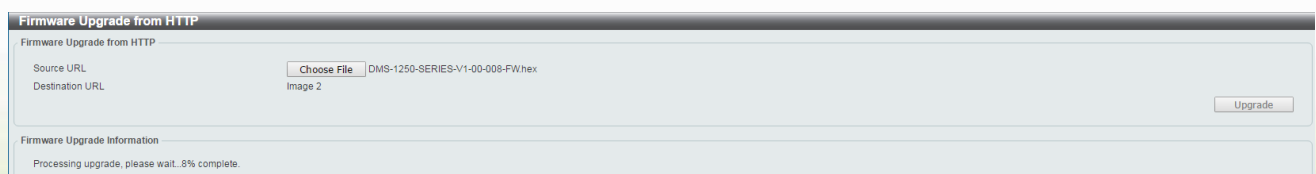
5. Two methods can be selected : **HTTP** or **TFTP**
6. Select **Firmware Update from HTTP** to upgrade the firmware to or from your local drive of PC.



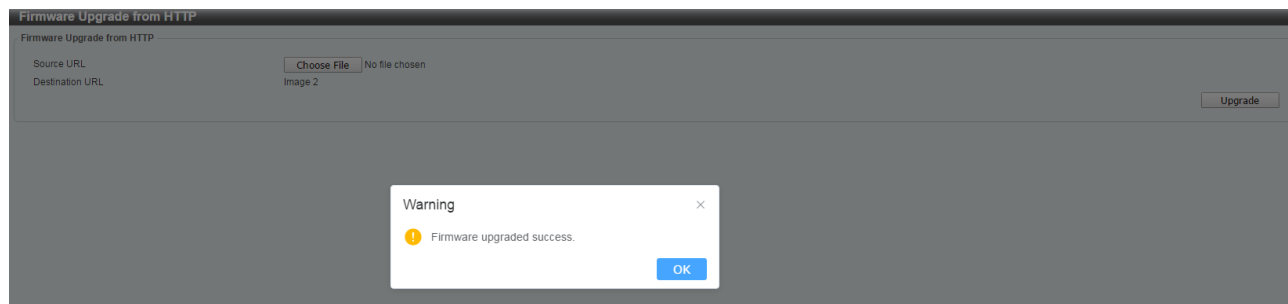
- a. Click **“Choose File”** to browse your inventories for a saved firmware file
- b. Click **Upgrade** after selecting the firmware file you want to upgrade



- c. It will be download the firmware file to DUT.
- d. When download success, do not power off, and will continue process upgrading (write firmware to flash).



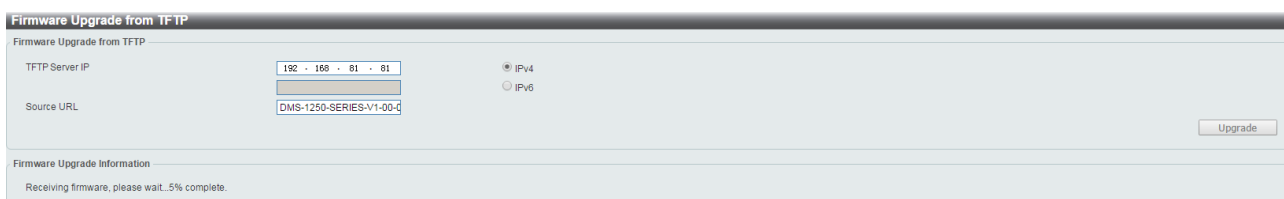
- e. Wait until the **“Firmware Upgrade Successful”** message pops up.



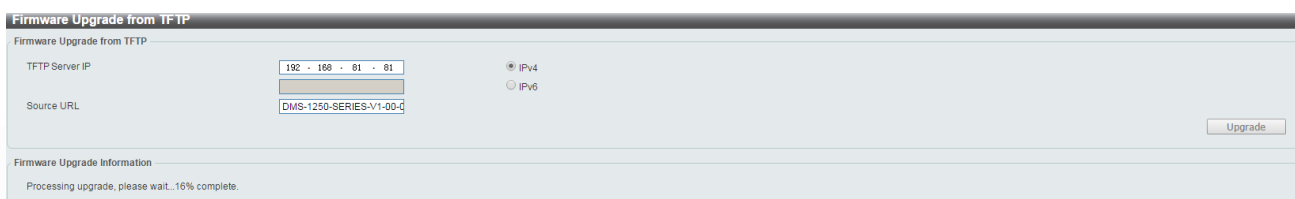
7. Select **TFTP** to upgrade the firmware to or from a remote TFTP server.



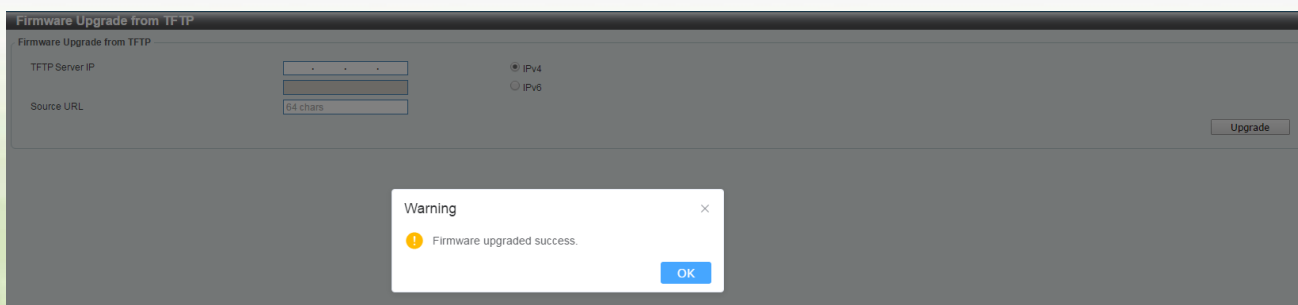
- Enter the TFTP server IP and the URL of the firmware file located on the TFTP server.
- Click **Upgrade** after selecting the firmware file you want to restore.
- It will be download the firmware file to DUT.



- When download success, do not power off, and will continue process upgrading (write firmware to flash).



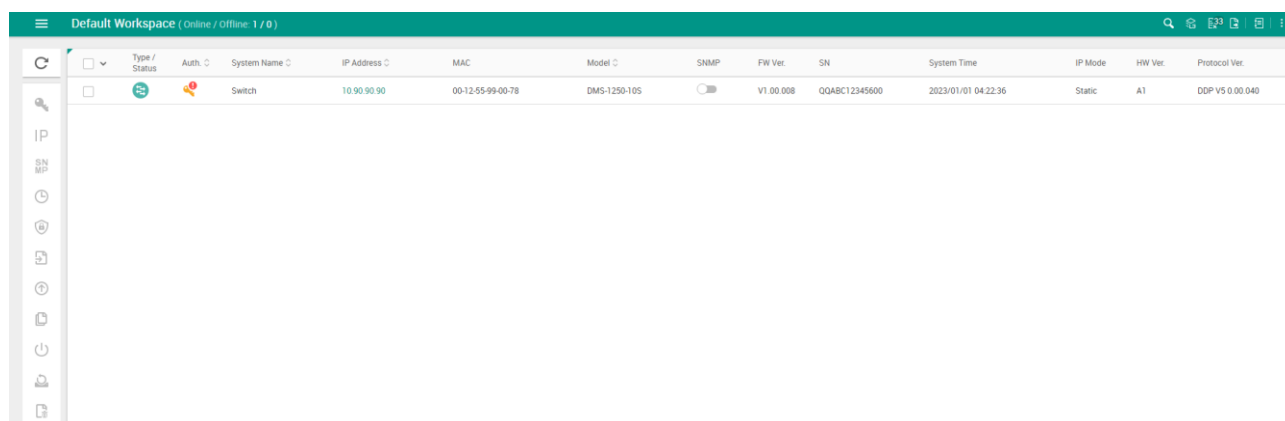
- Wait until the firmware upgrade ends.



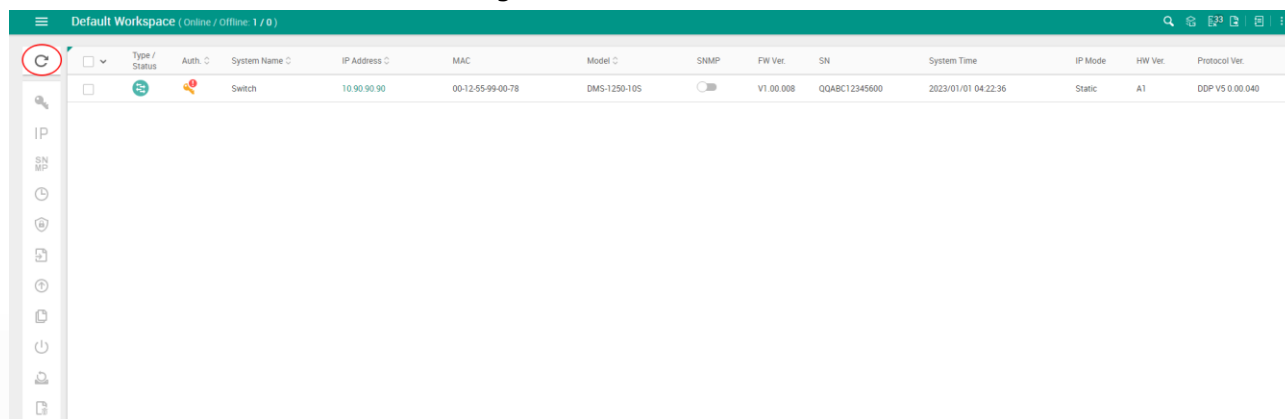
Upgrade using D-Link Network Assistant App

1. Connect a workstation installed with java SE runtime environment to any switch port of the device. Install DNA App in Web Store of Chrome Browser.

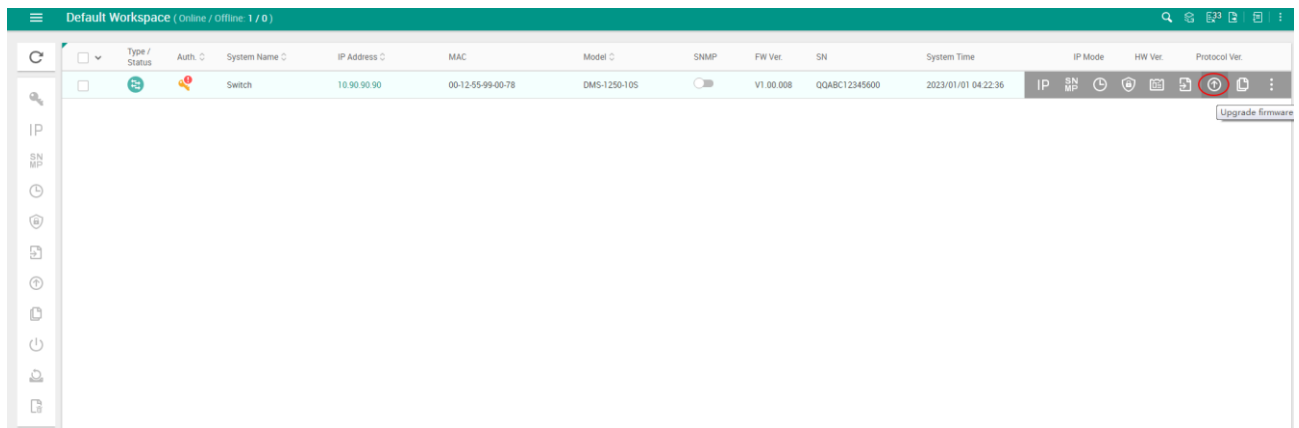
2. Execute D-Link Network Assistant App.



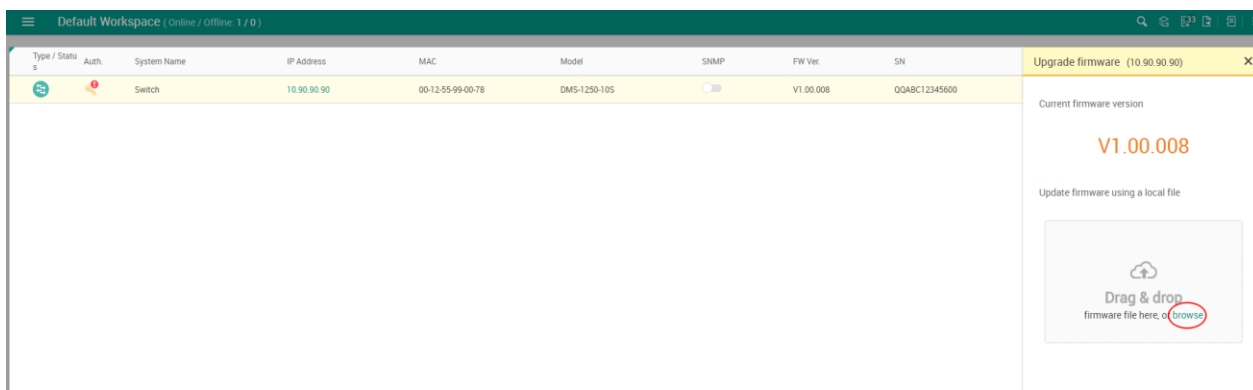
3. Click Refresh button to search target switch



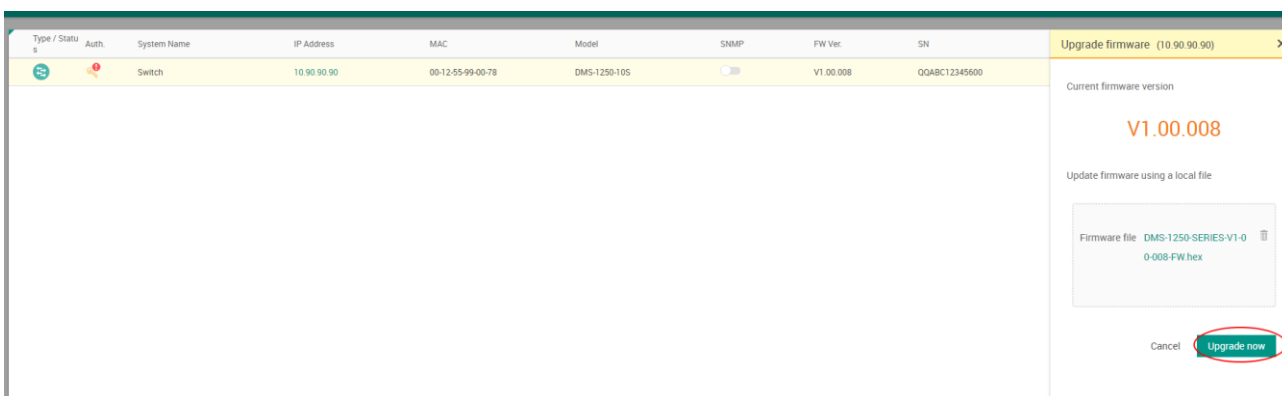
4. Move mouse to target device entry, then click "Upgrade firmware" button into upgrade firmware page



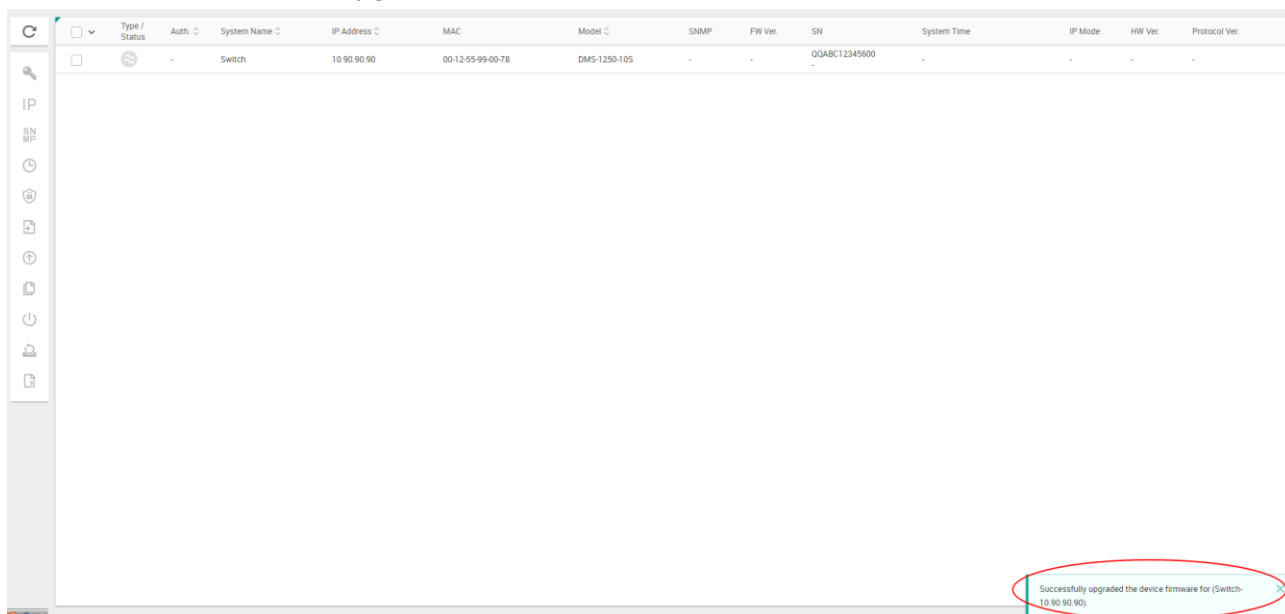
5. Click Browse button and select the firmware file (Model name- FW version .hex) on your local hard drive.



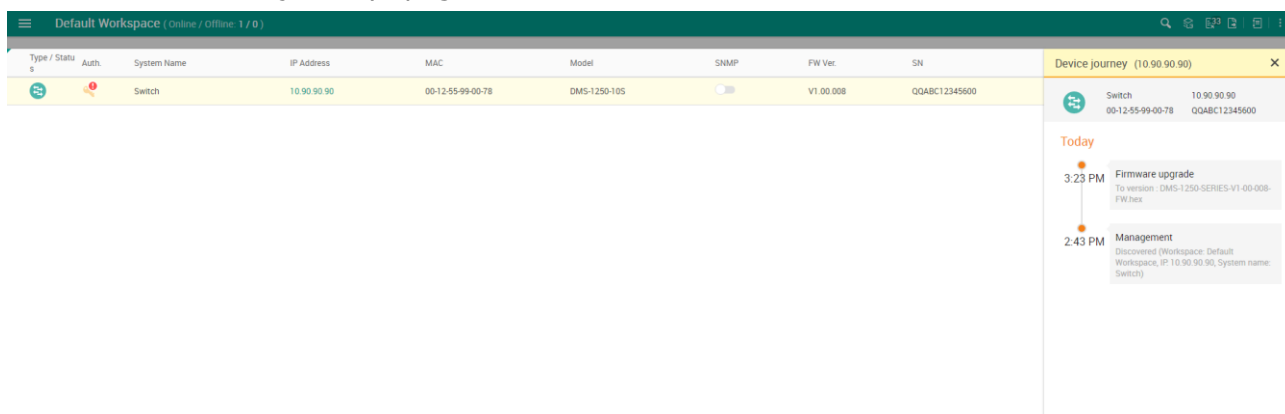
6. Click "Upgrade now" button to start firmware upgrade.



7. Wait until firmware upgrade finished.



8. The DNA pop an information to notify firmware upgrade status. Also can get firmware upgrade status from "Device journey" page.



New Features:

Firmware Version	New Features
V1.02.002	1.VLAN QinQ 2.DHCPv4/v6 and local relay with option82 support 3.ZTP + DHCP Auto-image 4.non-WAC Radius CoA/DM 5.ISM Vlan 6.DNC
V1.00.010	NONE
V1.00.008 (Not formal release)	First Release

Changes of MIB :

For detailed changes of MIB content, please refer to the modification history in each MIB file.

Mib Version	MIB File	New Features
V1.02.002	DMS-1250-SERIES-V1.02.002.mib	1.VLAN QinQ 2.DHCPv4/v6 and local relay with option82 support 3.ZTP + DHCP Auto-image 4.ISM Vlan 5.DNC
V1.00.010	DMS-1250-SERIES-V1.00.010.mib	Remove statPortCountCarriSen,statPortCountSQETestErr,statCountersrxMulticastDropPkts,statCountersifInUnknownProtos,statCounterstxDelayExceededDiscards
V1.00.008 (Not formal release)	DMS-1250-SERIES-V1.00.008.mib	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
V1.02.002	NONE
V1.00.010	NONE
V1.00.008 (Not formal release)	First Release

Problem Fixed:

Firmware Version	Problems Fixed
V1.02.002	- DBG24030605 [IP Interface][DMS-1250-10SPL][1.01.P006]DMS-1250 vlan interface setting is missing - DBG24040006 [ISM][DMS-1250-10SPL][1.01.P006]ISM VLAN cannot work when the multicast client is on different VLANs. - DBG24040015[ISM][DMS-1250-10SPL][1.01.P006]Cannot display the table of ip igmp snooping statistics vlan - DBG23080297[AAA][Auto][SNMP] DUT auto creating tacacs server group via SNMP - DBG23080266[WebUI][Auto] Unable to login to DUT and UI gets stuck at loading. - DBG23080317[AAA][Auto] cannot delete AAA default login method when set all none - VBG23060010 DMS-1250 SFP interface via 10G Fiber to Copper transceiver will link up without cable, and 10G transceiver will blinking. - DBG23090258[Voice VLAN][Auto] unable to identify device when set voice vlan mode as manual
V1.00.B014	[HQ20240416000008] [DMS-1250/1.00] shows 'SNMP Error Inconsistent Value.' in 'sw tr al vl'.[DI20240416000002-Japan]
V1.00.B013	- HQ20240326000002 [DMS-1250/1.00] 'terminal length' doesn't work w/ 'mac-address-table static' properly.[DI20240325000003-Japan] - HQ20240326000003 [DMS-1250/1.00] 'test cable-diagnostics' causes hot-sby and detaching from Link Aggregation Group.[DI20240326000001-Japan]

	3. HQ20231220000003 [DMS-1250/1.00] 'sh run' and 'copy run sta' causes T/C.[DI20231218000012-Japan]
V1.00.B012	1. 1.HQ20231215000005 [DMS-1250/1.00] doesn't send SNMP traps w/ 'snmp-server source-interface traps'. / same as DI20230905000004[DI20231215000001-Japan] [Medium] 2. 2.HQ20240104000014 [DMS-1250/1.00] shows 16386 as the total of its fdb and all 0 as int vlans.[DI20240104000003-Japan] 3. 3.HQ20240104000012 [DMS-1250/1.00] !rtkErr: [RT_ERR] dal/longan/dal_longan_l2.c:3729: In function 'dal_longan_l2_addr_add'[DI20240104000004-Japan] [Medium] 4. 4.HQ20240105000007 [DMS-1250/1.00] NPERR CmNpVlanHwVlanPortAdd(5768): CmNpVlanHwVlanPortAdd: incorrect param u2TagMode=3 / relate to DI20231218000007[DI20240105000001-Japan] [Medium]
V1.00.B011	1. HQ20231219000003 [DMS-1250/1.00] Creating a port channel causes inconsistency of vlans on the port-channel.[DI20231218000011-Japan] 2. HQ20231218000005 [DMS-1250/1.00] shows a wrong err msg in case of port-channel. / same as DI20230817000006[DI20231218000004-Japan] 3. HQ20231218000010 [DMS-1250/1.00] doesn't initialize vlan properly after 4. 'clear run' w/ 802.1X Dynimac VLAN. / same as DI20231025000002[DI20231218000007-Japan] 5. HQ20231218000004 [DMS-1250/1.00] creates the MAC addr of the supplicant on seveal vlans. / relate to DI20221027000002[DI20231218000002-Japan] 6. HQ20231214000009 [DMS-1250/1.00] doesn't send Syslog under 'no int vlan 1'.[DI20231214000007-Japan] 7. HQ20231218000006 [DMS-1250/1.00] doesn't recoginize MLDv2 SQ to all nodes. / same as DI20230905000006[DI20231218000001-Japan] 8. HQ20231218000007 [DMS-1250/1.00] doesn't show an err msg in loopback-detection w/ port channel. / same as DI20231010000002[DI20231218000005-Japan] 9. HQ20231218000011 [DMS-1250/1.00] DMS-1250 doesn't clear channel configurations w/ 'no ch' properly. / same as DI20231122000001[DI20231218000008-Japan] 10. HQ20231218000009 [DMS-1250/1.00] 'no sp' works as 'no speed' even though there still are two candidates in 'no sp'.[DI20231218000006-Japan] 11. HQ20231215000001 [DMS-1250/1.00] doesn't show an err msg for 'no snmp-server community' when it's used. / same as DI20230905000005[DI20231215000002-Japan] 12. HQ20231214000007 [DXS-1210/2.01] 'no speed' doesn't initialize 'speed auto '. /

	same as DI20230824000004[DI20231214000005-Japan] 13. HQ20231214000005 [DMS-1250/1.00] 'sh run include' doesn't show 'loopback-detection'. / same as DI20230817000003[DI20231214000003-Japan] 14. HQ20231214000006 [DMS-1250/1.00] doesn't accept 'no logging source-interface' under 'no int vlan 1'. / same as DI20230904000003[DI20231214000006-Japan] 15. 14. [DMS-1250/1.00] loses loopback-detection on an interface once.[DI20231225000001-Japan] 16. 15. [TPE#76641] Questions about DMS-1250-10S Public MIB
V1.00.010	1. VBG23060007 Radius and tacacs can't encrypt server key 2. VBG23060020 [DDM][DMS-1250 /HW:A1]Web and console display mwatt value is different when configuring transceiver-monitoring rx/tx power. 3. DBG23070114 [AAA/SNMP]Switch crashes when execute snmpset. 4. DBG23070068 [System Information][IPv6 interface] IPv6 address of system information is wrong 5. DBG23070094 Switch can't display change configuration settings after configure dot1x port-control as force-authorized/force-unauthorized. 6. DBG23060400 [Port Security] Even if the port security maximum is 0, switch can't block the host. 7. DBG23060407 [Port Security] Switch should not allow creating invalid port-security mac-address. 8. DBG23060395 [Port Security] Switch can't display correct log when switch reaches port-security address full on a port. 9. DBG23070022 [IP_ACL] Unable to display list-remark in CLI. 10. DBG23070129 [WEB/SNMP] WebGUI pops out the error message "SNMP Error Incorrect Value". 11. DBG23070010 [IP_ACL] When creating a new IP standard/extended ACL profile with a different name but the same ID, the ACL profile will be cleared. 12. DBG23060438 [CPU] CPU Utilization is 0% after Reboot. 13. DBG23060410 [Port Security] After delete VLAN, switch can't learn the correct number of the port-security hosts.(Need to reset/reboot switch to recover the issue) 14. DBG23070108 [AAA] Unable to configure the password with special character "!". 15. DBG23070139 [IPv6] When IXIA1 sends the FF02::2 address multicast packet, DUT will enter the shell and reboot automatically. 16. DBG23070126 [Reset_WebUI] WebUI's 'clear running' do 'reset system'. 17. DBG23060383 [Config Size] Command "show running-config" DUT will display the current configuration as 0 bytes and different from the backup configuration file size. 18. DBG23060401 [Port Security] Why switch can learn more than 64 MAC addresses

	when the per port max number is 64? 19. DBG23070096 [802.1X] After link down/up the port, switch still keeps the authentication username. 20. DBG23070033 [802.1X] What is the maximum entry of 802.1X authentication when using RADIUS database? 21. DBG23070027 [802.1X] Switch suddenly can't reply EAP/RADIUS packets , and the mac-address can not be cleared. 22. DBG23070006 [802.1X] Connect IXIA to switch.(IXIA don't run 802.1X and don't send any packet) ,after that switch will block the hosts.
V1.00.008 (Not formal release)	First Release

Known Issues:

Firmware Version	Issues	Note
1.02.002	1. DBG24060401 [FW:1.02.002] [SNMPv3]Crash issue on SNMPv3 Test with command line: snmp-server user test dlink v3 password auth md5 oxox priv 1 oxox	Fix in next version
	2. DBG23080282 [IP Interface] MAC Address is changed after deletion of another IP Interface and save reboot	(design limitation)
V1.00.008 ~ V1.00.010V	1. VBG23030018 [FW 1.00.001/Boot: 1.00.001] Test Result is fail. DMS-1250 Max MAC address table size is 16383, increment learning is OK, but random learning just 15154 (loss rate 7.5%)	(HW Limitation)
	2. VBG23010053 When transmit 10,000 Random MAC address learning result just display 4960, does not meet the criteria.(HW Limitation)	(HW Limitation)
	3. VBG23020067 DUT should not re-sync when adding LACP same group member port.(design limitation)	(design limitation)

4. VBG23010003	PC2 still can receive packets from PC1,when enable DOS Ping To Death attack	(HW Limitation)
5. VBG23020015	[FW 1.00.001/Boot: 1.00.001] Test Result is fail, DMS-1250 A1 Series traceroute result will be affect when lots ARP packets sending in the same time.	(design limitation)
6. VBG23030053	[FW 1.00.002/Boot: 1.00.001] Test Result is fail. DMS-1250 Series Voice VLAN dynamic member forward Voice VLAN ID packets need 2nd packets, the first one packets cannot change to Voice VLAN	(design limitation)
7. VBG23020001	[FW 1.00.001/Boot: 1.00.001] Test Result is fail. when T-test2 timeout will cause T-test1 packets flooding some packets to others ports.	(design limitation)
8. VBG22120073	[FW 1.00.001/BOOT 1.00.001] test result is fail. DMS-1250 STP and LBD global cannot enable at the same time, that does not fit based-	(design limitation)
9. on port state check rule.		
10. VBG23060009	PoE chip RTL8238B, when provide power to Legacy PD, classification will show "class 0".	(HW Limitation)
11. VBG23040014	DMS-1250-10SP LED Mode change button, sometimes cannot change mode after we push button.	(HW Limitation)
12. VBG23060008	When the user password format setting does not meet the rules, no blocking information will be generated.	(cli engine limitation)
13. DBG23070110	[DDM] Wrong Command Mode for 'snmp-server enable traps transceiver-monitoring'.	(design limitation)

14. BG23050034 Cable Diag test shows incorrect results.	(HW Limitation)
15. VBG23020056 [FW 1.00.001/Boot: 1.00.001] Test Result is fail, DUT cannot reply ping broadcast address request.	(Know issue)
16. VBG23060012 Partner portNo and portPri of LACP Neighbor Information cannot display information.	(Know issue)
17. DBG23070092 [802.1X] When Authentication Server Failover, client can't pass authentication by local DB.	(Know issue)
18. DBG23080282 [Auto] MAC Address is changed after deletion of another IP Interface and save reboot.	(design limitation)
19. DBG24010086 [DMS-1250-12TP/HW:A1]When setting a number out of range in MIB, the error message displays "Unknown error".	(Know issue)
20. DBG23090256 [Auto][TSD1SW_L2_Mirror]Port Mirroring - Add/Delete only Source port or Target port	(HW Limitation)
21. DBG23090257 [Auto][TSD1SW_PING][DMS-1250][1.00.010]PING - To Unknown/ inexistence host	(Know issue)
22. VBG24010062 [DKP0911064-91]DHCP Relay-Received the Relayed DHCP packets,in this test when Disabled the DHCP unicast relay the DHCP client cannot Forward packet to DHCP server, not fit criteria 4 and	(Know issue)
23. DBG23090225 [1.00.010][Auto][TSD1SW_Error_Recovery]0024_ Error Recovery - Port security - Basic Function	(Know issue)
24. VBG24040014 DMS-1250 does not sync DNC set configuration of Time Range as Many Weekdays.(If it is a consecutive number of days, there is no such problem).	(Spec Issue)

Related Documentation:

- [DMS-1250 Series A1 User Manual](#)
- [DMS-1250 Series Getting Started Guide](#)