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.

Content:

Revision History and System Requirement:

Firmware Version	Date	Model	Hardware Version
Runtime: V2.01.010 Boot: 1.00.003	10-Jul.-2023	DXS-1210-10TS/12TC/12SC/16TC B1	B1
Runtime: V2.01.009 Boot: 1.00.003	26-Apr.-2023	DXS-1210-10TS/12TC/12SC/16TC B1	B1
Runtime: V2.01.B008 Boot: 1.00.003	16-Mar.-2023	DXS-1210-10TS/12TC/12SC/16TC B1	B1
Runtime: V2.01.007 Boot: 1.00.003 (Not formal release)	28-Nov.-2022	DXS-1210-10TS/12TC/12SC/16TC B1	B1
Runtime: V2.00.008 Boot: 1.00.002	23-May.-2022	DXS-1210-10TS/12TC/12SC/16TC B1	B1

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 username and password are **"admin"**.

The switch does 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
copy tftp://LOCATION/SOURCE-URL	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/DXS-1210-SERIES-B1-V2-00-008-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
show switch	Display the information of current firmware and boot version.
show firmware	Display the information of the image or firmware.

Example:

```
1.   Switch# copy tftp://10.90.90.99/DXS-1210-SERIES-B1-V2-00-008-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          : DXS-1210-12TC 10GbE Smart Managed Switch
      System Name          : Switch
      System Location      :
      System Contact       :
      Boot PROM Version     : 1.00.002
      Firmware Version     : V2.00.008
      Hardware Version     : B1
      MAC Address          : 00-27-29-53-68-32
      IP Address           : 10.90.90.90
      Mask                 : 255.0.0.0
      Gateway              : 0.0.0.0
      System Time          : 01/01/2021 00:01:56
      Serial Number        : QQDMS12345600
    Switch#

3.  Switch# show firmware

    Image ID    Version        Size(B)     Update Time
    ----------  -------------  ----------  ------------
     1          V2.00.008      32202112    01/01/2021 02:23:32
    *2c         V2.00.008      27630976    01/01/2021 00:03:07

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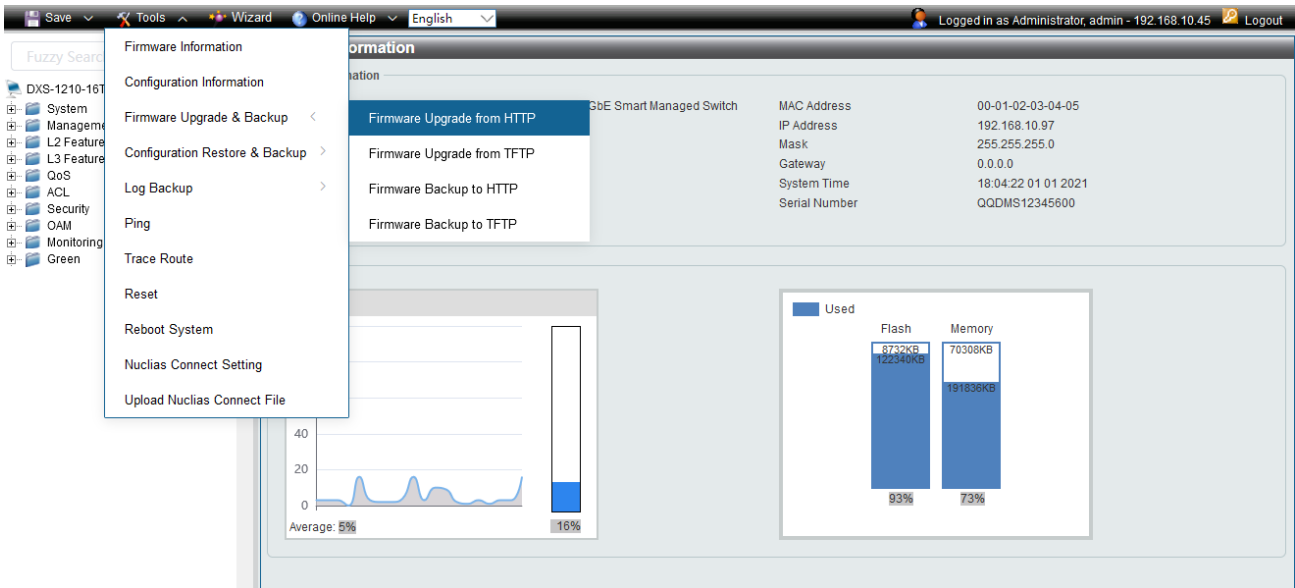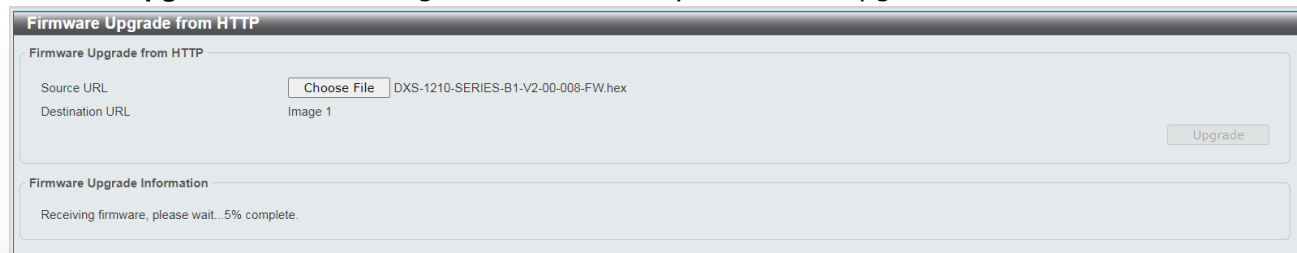
5. Two methods can be selected: **HTTP** or **TFTP**

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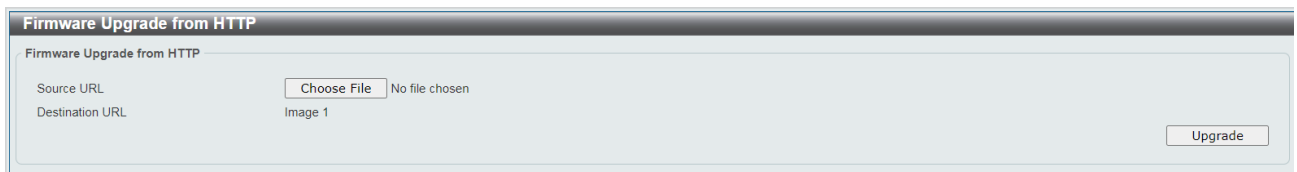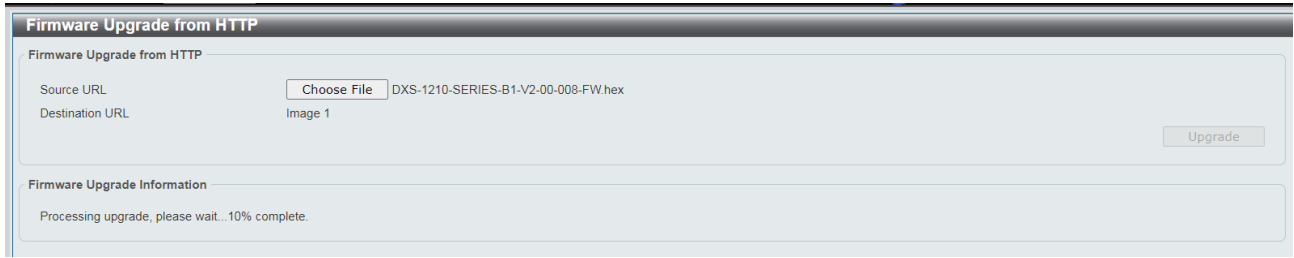

a. Click **"Choose File"** to browse your inventories for a saved firmware file
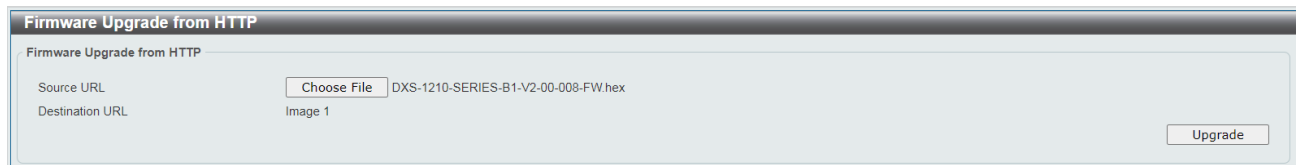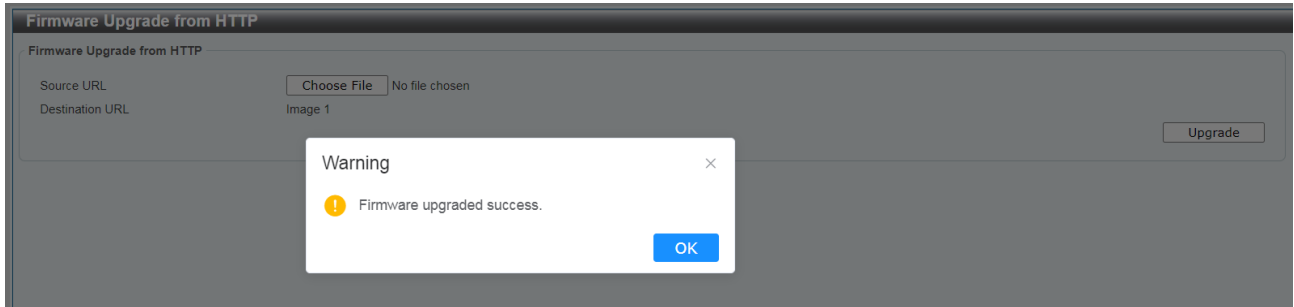

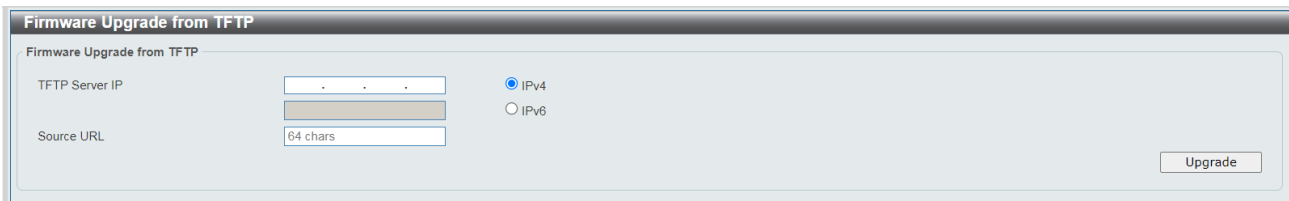b. Click **Upgrade** after selecting the firmware file you want to upgrade

c. It will be downloading the firmware file to DUT.

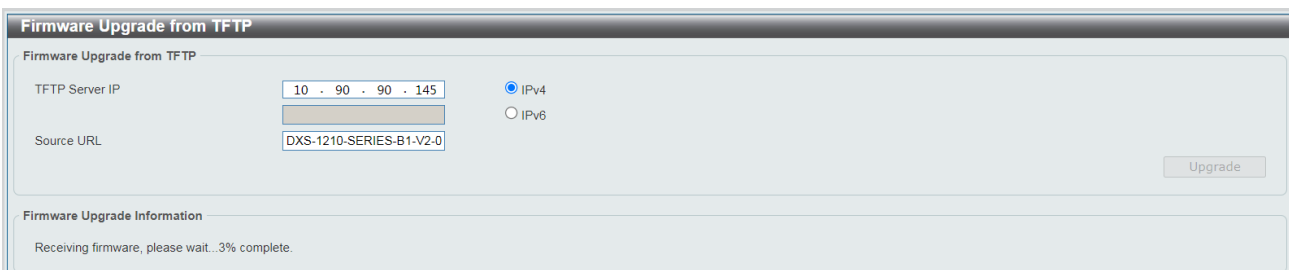d. When download success, do not power off, and will continue process upgrading (write firmware to flash).

Firmware Upgrade from HTTP

Firmware Upgrade from HTTP

Source URL	Choose File DXS-1210-SERIES-B1-V2-00-008-FW.hex
Destination URL	Image 1

Upgrade

Firmware Upgrade Information

Processing upgrade, please wait...10% complete.

    e.   Wait until the "Firmware Upgrade Successful" message pops up.

Firmware Upgrade from HTTP

Firmware Upgrade from HTTP

Source URL	Choose File No file chosen
Destination URL	Image 1

Upgrade

Warning   ✕

⚠ Firmware upgraded success.

OK

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

Firmware Upgrade from TFTP

Firmware Upgrade from TFTP

TFTP Server IP	. . .	● IPv4
		○ IPv6
Source URL	64 chars	

Upgrade

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

Firmware Upgrade from TFTP

Firmware Upgrade from TFTP

TFTP Server IP	10 . 90 . 90 . 145	● IPv4
		○ IPv6
Source URL	DXS-1210-SERIES-B1-V2-0	

Upgrade

Firmware Upgrade Information

Receiving firmware, please wait...3% complete.

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

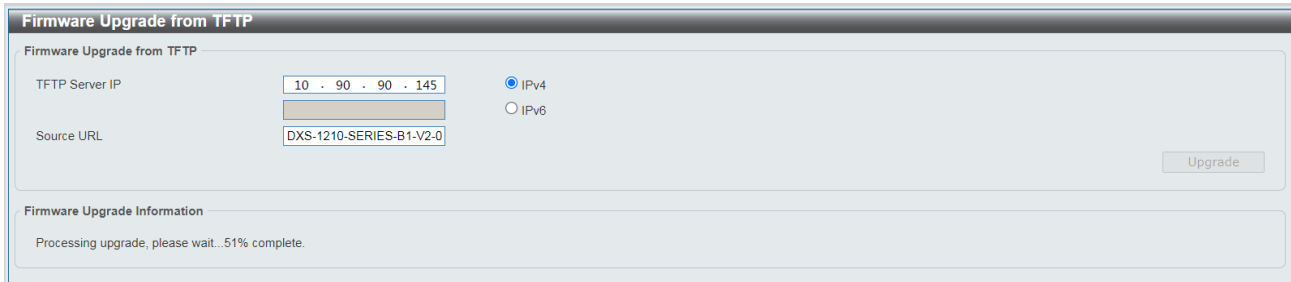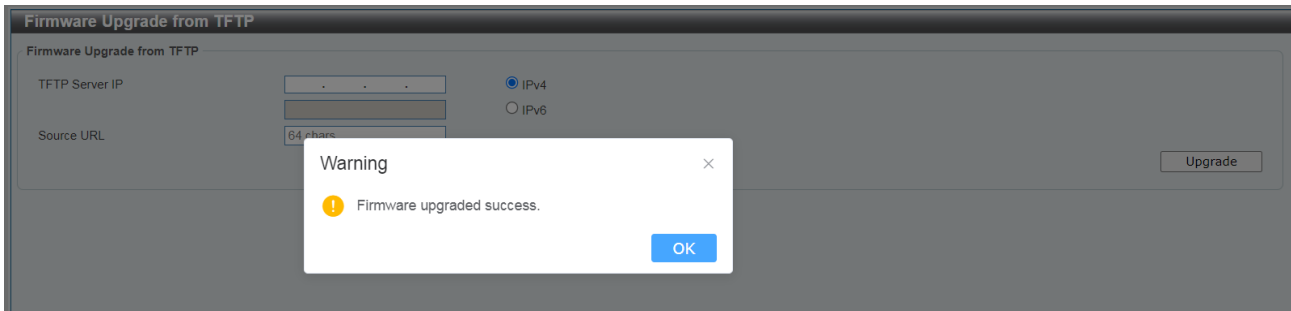dlink green

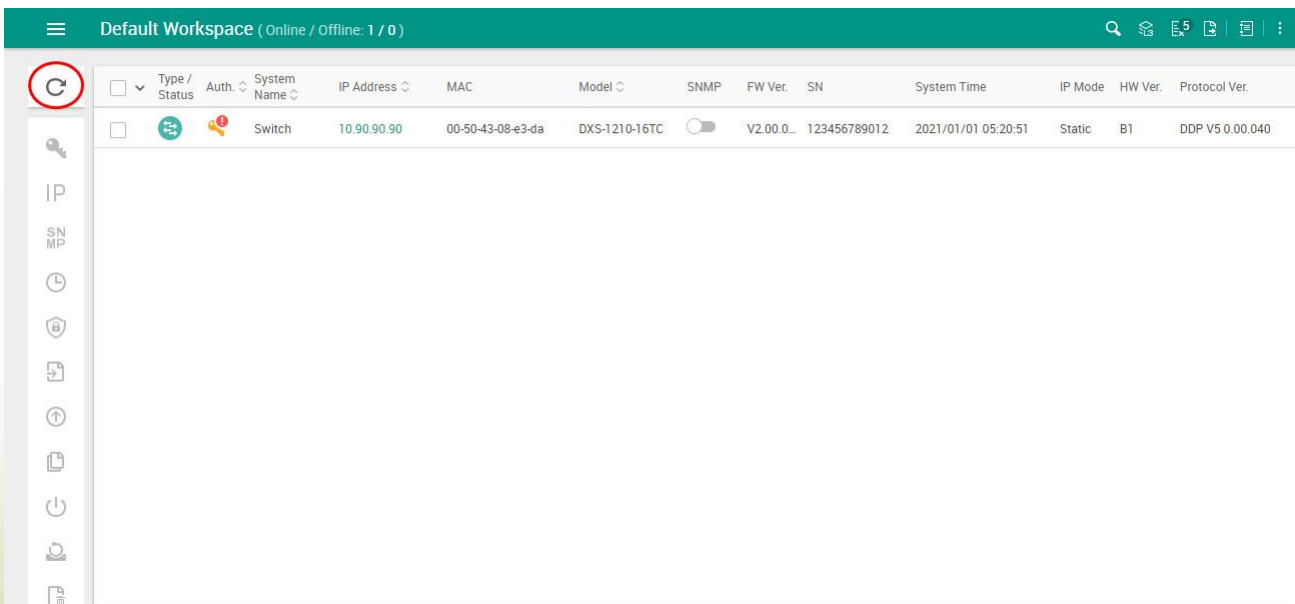e. Wait until the firmware upgrade ends.

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.
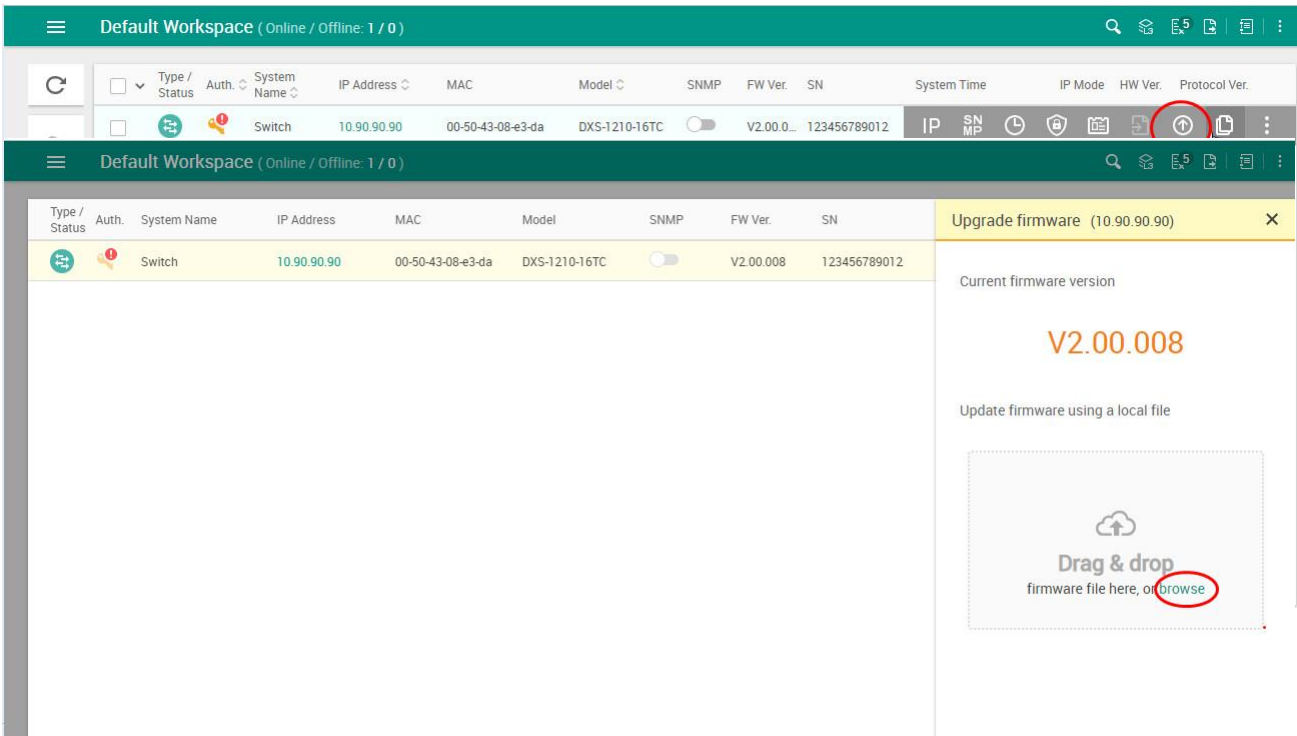
2. Execute D-Link Network Assistant App.

3. Click Refresh button to search target switch

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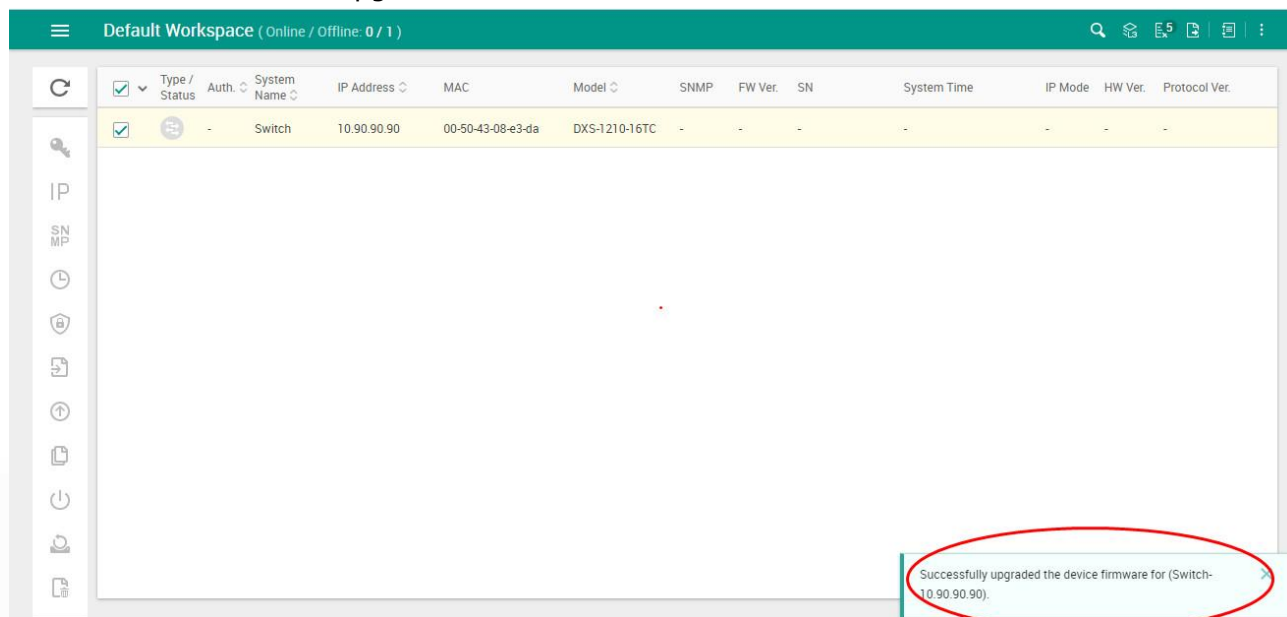

5. Click Browse button and select the firmware file (Model name- FW version .hex) on your local hard drive.
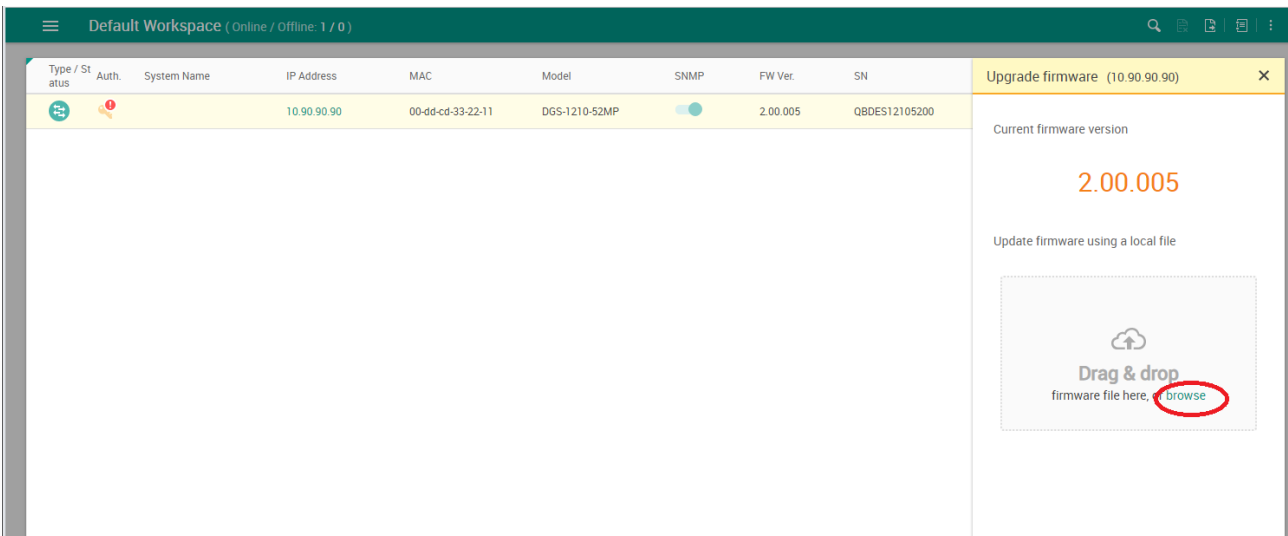
6. Click "Upgrade now" button to start firmware upgrade.
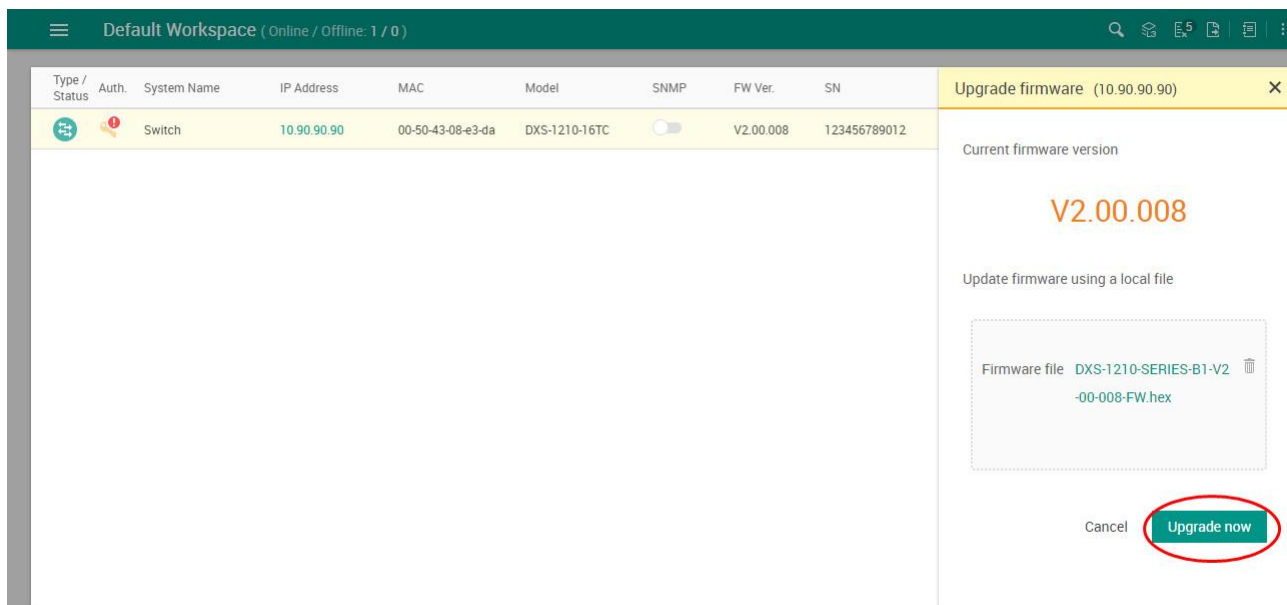
7.   Wait until firmware upgrade finished.

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
V2.01.010	NONE
V2.01.009	NONE
V2.01.B008	Support show GBIC
V2.01.007(Not formal release)	Support DNC Support EEE
V2.00.008	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
V2.01.010	DXS-1210-SERIES-V2.01.010.mib	NONE
V2.01.009	DXS-1210-SERIES-V2.01.009.mib	NONE
V2.01.B008	DXS-1210-SERIES-V2.01.B008.mib	Support show GBIC
V2.01.007 (Not formal release)	DXS-1210-SERIES-V2.01.007.mib	Support DNC Support EEE
V2.00.008	DXS-1210-SERIES-V2.00.008.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
V2.01.010	NONE
V2.01.009	NONE

V2.01.B008	Support show GBIC
V2.01.007 (Not formal release)	Support DNC Support EEE
V2.00.008	First Release

Problem Fixed:

Firmware Version	Problems Fixed
V2.01.010	1. Issue No: [DBG23060253] Subject: [DDM][DXS-1210_B1][2.01.009] Sequence of "link down" and "warning threshold exceeded" issue. Description: The "warning threshold exceeded" log precedes the "link down" log instead of the "alarm threshold exceeded" log preceding the "link down" log. Sometimes the "link down" log precedes "threshold exceeded" log. 2. Issue No: [DBG23060195] Subject: [DDM][DXS-1210 /HW:B1] Error message "lua_pcall failed:./cmscript/cust_ln/logic/UtilCmn.lua:468: bad argument #4 to 'format' (string expected, got nil)" after port shutdown and command execution "show errdisable recovery" Description: The list of interfaces that will be recovered is not shown in the CLI. 3. Issue No: [DBG23060191] Subject: [DDM][DXS-1210 /HW:B1]The DDM threshold values displayed on the Web and CLI are inconsistent. 4. Issue No: [DBG23060162] Subject: [DDM][DXS-1210 /HW:B1]Can't show correct mwatt when configuring transceiver-monitoring rx/tx power. Description: The value which is set as threshold will be shown as round-down value with 3 decimal points. 5. Issue No: [DBG23060269] Subject: [DDM][DXS-1210 /HW:B1]An error message will appear when the "snmp-server" command is executed. Description: After system reset and repeat configuration of SNMP server trap setting random times, error message would show up.

6.   Issue No: [DBG23060205]

Subject: [DDM][DXS-1210 /HW:B1]An error message will appear when the "snmp-server source-interface traps vlan 1" command is executed.

Description: Error message: "The specified interface does not exist" shows up after executing "snmp-server source-interface trap vlan 1" command.

7.   Issue No: [DBG23060321]

Subject: [DNH 1.2.1.6][DXS-1210 1.21.009]Switch keep rebooting and print error log.

Description: Some lldp-med packets have manufacturer name field，the code encountered an error while obtaining this field.

8.   Issue No: [DBG23060203]

Subject: [DDM][DXS-1210 /HW:B1] Threshold Exceeded Log appeared shortly after plugging in transceiver.

Description: Some lldp-med packets have manufacturer name field, and the code encountered an error while obtaining this field

9.   Issue No: [HQ20230525000007]

Subject: Problem with encryption.

Description: TACACS+ configuration login and enable methods.

V2.01.009	1. Issue No: [DBG23030343] Subject: [DNH-100_A1][1.2.1.5][DXS-1210_B1][2.01.007] Failed to apply Allowed Vlans "All" on Trunk port Description: It is failed to apply Allowed Vlans "All" on the Trunk port. 2. Issue No: [DBG23030456] Subject: [DNH-100_A1][1.2.1.5][DXS-1210_B1][2.01.007] Cannot disable IGMP snooping VLAN state Description: IGMP snooping and related VLAN setting still exist after deleting all above-mentioned settings. 3. Issue No: [DBG22070249] Subject: [CLI] The help message should be displayed after type "?" Description: After the command "?", the help message should be displayed. 4. Issue No: [HQ20230407000005]

Subject: DXS-1210-12SC port-security [DRU20230403000003-Russia]

Description: After setting and deleting the port-security setting, the port-security function can not work via pinging check in CLI.

5. Issue No: [DBG23050177]

Subject: [Auto][MAC-ACL] [DXS-1210][2.01.007] Unable to block untagged traffic when set ACL to deny vlan 1

Description: ACL with setting "Deny any any with VLAN 1" and "permit any any" should block packet tagged VLAN 1.

6. Issue No: [DBG23050189]

Subject: [Auto][MAC-ACL] [DXS-1210] [2.01.007] MAC ACL Ethernet-type output has several issues

Description: (1) Some ether-type naming is wrongly display with its code instead of protocol (2) Ether-type 0 0 will be wrongly added into the new establishing VLAN rule and CoS.

7. Issue No: [DBG23050261]

Subject: [Auto][MAC-ACL] [DXS-1210] [2.01.007] MAC ACL deleted in specific situation.

Description: A MAC-ACL sometimes will be deleted after configuring a same-name MAC-ACL.

8. Issue No: [DBG23040454]

Subject: [Telnet][DXS-1210-12TC/B1] [FW:2.01.007] Telnet to DXS-1210-12TC enter "reboot" and close the telnet window, the switch will hang and can't show/config anything.

9. Issue No: [DBG23030061]

Subject: [EEE] [2.01.007] Prompt Message on Non-supported Port (Fiber port) 'The specified port dose not support SFP.'

Description: Typo: dose→does.

10. Issue No: [DBG23030462]

Subject: [DXS-1210 /HW:B1 /FW:2.01.007]WebGUI will pop out error message "SNMP Error Incorrect Value" randomly.

Description: Error message randomly pop-out after reset/reboot and login switch via web GUI.

V2.01.B008	1. Issue No: [HQ20221019000011] Subject: Always shows 'Current Time Source' as 'System Clock' in CLI Description: DXS-1210-12TC always shows "Current Time Source" as "System Clock" in CLI, even though its WebUI shows SNTP. 2. Issue No: [HQ20221026000006] Subject: Wrong unit in Storm Control in its Web UI. Description: The unit of current packet in table in storm control should be aligned with threshold's unit. 3. Issue No: [HQ20221026000007] Subject: SSL cert. from 12/27/2041 to 12/25/2051. Description: DXS-1210 uses a private SSL cert. w/ wrong period from 12/27/2041 to 12/25/2051. 4. Issue No: [HQ20221031000007] Subject: No MAC addr in its MAC addr tbl under 802.1X Authenticator State: AUTHENTICATED in dot1x Description: This causes DXS-1210 dropping all the pkts from the PC. 5. Issue No: [HQ20230130000018] Subject: Broadcast in Storm Control Settings does not shutdown. Description: Port shutdown won't active when set to PPS 0 0 and sending 1 packet. 6. Issue No: [HQ20230105000007] Subject: Ghost hybrid vlan. Description: Shows wrong hybrid vlan and keeps its configuration. 7. Issue No: [HQ20221021000007] Subject: Doesn't accept 'no vlan' Description: Shows an err msg when it's applied "no vlan".
V2.01.007 (Not formal release)	1. Issue No: [DBG22070176] Subject: [802.1x] DUT does not assign to valid VID dynamically after authentication. Description: DUT does not assign to valid VID dynamically after authentication. 2. Issue No: [DBG22070173]

Subject: [802.1x] Assigned priority is incorrect in DUT.

Description: The priority of ACL assignment does not display correctly.

3. Issue No: [DBG22070011]

Subject: [DXS-1210-12TC] [H/W:B1][F/W:2.00.008] Changing the speed should show the correct information.

Description: From a force mode speed setting (e.g. force 10G full) changed to a different force speed setting (e.g. 2.5G Full) that will cause the link issue (link down, LED display incorrectly, CLI status incorrectly).

4. Issue No: [DBG22060330]

Subject: [Combo port] Combo port link status is not correct in cli.

Description: In some scenarios, if a copper SFP transceiver (SFP transceiver with RJ45 connector) is plug-in to the combo port without cable-connected, it will misjudge the fiber port connection status in CLI.

5. Issue No: [DBG22060292]

Subject: [DXS-1210_B1] [2.00.008][IP_ACL] The DXS-1210 rebooted while configuring the MAX. IP ACL rules.

Description: While implementing batch ACL commands with auto ID setting, on some occasions, it might result in the system being busy and turning out system reboot behavior.

6. Issue No: [DBG22070101/HQ20221031000005]

Subject: [802.1X] DUT running config show duplicate command: "no dot1x forward-pdu".

Description: Removed non-necessary sentence.

7. Issue No: [DBG22070082]

Subject: Incorrect cli display when Maximum Length of VLAN Name is met.

Description: If the maximum length of characters is used to create the VLAN name, the VLAN name in the CLI will display incorrectly.

8. Issue No: [DBG22060250]

Subject: [Web][DXS-1210/B1] [V2.00.008] The VLAN "All button" doesn't work.

9. Issue No: [DBG22060182]

Subject: [ErrorMessage] [2.00.008] Error message 'sigStopHandler: forbid

appDemo to exit when input ctrl+c!' after input 'CTRL+C'.

10.   Issue No: [DBG22070070/HQ20221020000003]

Subject: [DXS-1210-12TC] [H/W:B1][F/W:2.00.008] Combo copper port 11 and 12 LEDs should not blinking after reboot when IXIA is not generating traffic.

11.   Issue No: [HQ20221021000006]

Subject: [DXS-1210/2.00] session-timeout X in line console. [DI20221019000004-Japan]

Description: DXS-1210-12TC shows an err msg when it's applied session-timeout X in line console.

12.   Issue No: [HQ20221019000011]

Subject: [DXS-1210/2.00] always shows 'Current Time Source' as 'System Clock' in CLI. [DI20221019000007-Japan]

Description: DXS-1210-12TC always shows "Current Time Source" as "System Clock" in CLI, even though its WebUI shows SNTP.

V2.00.008	First Release

Known Issues:

Firmware Version	Issues	Workaround
	Known issue:	
	1. WebGUI will pop out error message "SNMP Error Incorrect Value" randomly.	Fix in next version.
	2. "Link down" log precedes "threshould exceeded" log.	Fix in next version.
V2.01.007 ~V2.01.0009	**Limitation:** 1. The cable diagnostics test result always displays N/A with non-combo port via 1m cable length due to current design of the DXS 1210 B1. (Cable diagnostics are available for cable longer than 1 M.) 2. ERPS and LBD should be enabled by port instead of global setting; Currently DXS-1210 needs to change its per-port state from Global state. 3. VLAN Name cannot be configured with the specific character '~!@#$%^&*()_+|<>=-' in CLI mode 4. DUT1 port1-4 TX/sec should be equal with Load balance 'mac_source_destination'. 5. DUT1 port1-4 TX/sec should be equal with Load balance 'ip_source_destination' 6. Follow D-link Criteria, ports state should NOT link-down after enablement of EEE function. 7. Follow D-link Criteria, the EEE function only support under the condition of auto-negotiation mode enabled. 8. When user set broadcast, multicast and unicast with different threshold value, DUT	

will use the last value to replace others.

9. Port LED will randomly light up when we plug in the power.

10. DUT cannot drop TCP Tiny Fragment Attack packets.

11. Set Port security to "delete-on-timeout mode", sometimes DUT clear the MAC before reaching the aging time.

12. Learnt result showed only 26209 entries when transmitting 32767 random and increment MAC address at 100% transmit rate.

13. Port security delete on timeout, sometimes DUT clear the mac before the aging time.

14. Switch does not support cross VLAN routing via jumbo frame.

15. Priority of GVRP control packets is higher than ACL deny.

16. Priority of STP control packets is higher than ACL deny.

17. The same priority Voice Vlan doesn't share the same bandwidth since the queues of the chip are not the same.

18. When the Voice VLAN dynamic member which forward Voice VLAN ID packets need 2nd packet, the first packet cannot change to Voice VLAN ID.

19. If the transmit rate meets 100%, traceroute result will be affected when lots ARP packets trap to CPU.

20. When trying to add a new port in the curent LACP group, sometimes DUT disconnect and

reconnect, the LACP cannot forward the packets via routing.

21. MAC-ACL with ether-type 86DD (IPv6 protocol) prohibited layer 3 IP packet. The correct behavior should be not able to block layer 3 IP packet.

22. Port security and IMPB functions cannot be used at the same time according to design spec. since IMPB doesn't support strict mode.

23. ASV feature priority is not higher than Port Security limit (ASV design rule limitation), which results to failure of ASV OUI SA MAC learning when maximum learnt address of port security is met.

24. GUI cannot display via Web with IE11. The Internet Explorer 11 desktop application has retired and is out of support as of June 15, 2022.

25. The cable diagnostics test result always displays N/A with non-combo port via 1m cable length due to current design of the DXS 1210 B1. (Cable diagnostics are available for cable longer than 1 M.)

26. The clear all command used in the cable diagnostics; the combo port check result cannot be cleared. But, if activated new diagnostics, the check result will be updated normally.

Compatibility with DNH:

1. The sequence Number of ACL will not be multiples of 10 in auto mode.	Won't fix, design so.
2. Cannot bundle the LACP port channel if the mark ("," or "-") of VLAN range is different.	Fix in next DNH version (V1.2.1.7)

V2.00.008	**Limitation:**

Limitation:

1. GUI cannot display panel and DLINK image when accessing via Web (IE11). DXS-1210 B1 not support IE11.
   The Internet Explorer 11 desktop application has retired and is out of support as of June 15, 2022

2. [DBG22060327] If send packets from the 10G interface to the 100M half interface will display CRC in counter.

Chipset limitation: The DXS-1210 B1 does not support 100M half mode manually; the 100M half mode status through the auto-negotiation.

3. The current design of the DXS-1210 B1, the cable diagnostics test result always displays N/A without combo port via 1m cable length.

4. The clear all command used in the cable diagnostics; the combo port check result cannot be cleared. But, if activated new diagnostics, the check result will be updated normally.

5. The voice VLAN dynamic member to forward the voice VLAN ID packets that need used 2nd packets, the first packets cannot change to the voice VLAN ID.

6. The port LED will randomly light up at powering up stage.

7. The current design of the DXS-1210 B1, the ERPS and LBD can be enabled by port before the global setting.

8. The TCP Tiny Fragment packets cannot drop.

9. Learnt result showed only 26209 entries when transmitting 32767 random and increment MAC address at 100% transmit rate.

10. The DXS-1210 B1 does not support cross VLAN routing via jumbo frame.

11. Priority of GVRP control packets is higher than

	ACL deny.	
	12. Port security and IMPB functions cannot be used at the same time according to design spec. since IMPB doesn't support strict mode.	
	13. ASV feature priority is not higher than Port Security limit (ASV design rule limitation), which results to failure of ASV OUI SA MAC learning when maximum learnt address of port security is met.	
	Known issue:	
	1. [DBG22060292] While implementing batch ACL commands with auto ID setting, in some special cases this might have chance resulted in the system being busy and turning out to be system reboot behavior	Fixing in next version
	2. [DBG22070011] From a force mode speed setting (e.g., force 10G full) changed to a different force speed setting (e.g., 2.5G Full) that will cause the link issue (link down, LED display incorrectly, CLI status incorrectly).	Fixing in next version
	3. [DBG22060330]In some special scenarios, if a copper SFP transceiver (SFP transceiver with RJ45 connector) is plug-in to the combo port without a cable connection, it will misjudge the fiber port connection status in CLI.	Fixing in next version
	4. [DBG22070030] Different profiles share one "permit" rule.	Fixing in version V2.4
	5. [DBG22070082] If the maximum length of characters is used to create the VLAN name, the CLI will display incorrectly.	Fixing in next version
	6. [DBG22070101] Duplicate command displayed (no dot1x forward-pdu) when executing "show running-config"	Fixing in next version

7.	[DBG22070154] When plugging and unplugging the 10G transceiver "DEM-431XT_C1, DEM-432XT_E1", the console prints some error logs.	Fixing in version V2.4
8.	[DBG22070173] The priority of ACL assignment does not display correctly	Fixing in next version
9.	[DBG22070176] The device does not assign to valid VID dynamically after authentication	Fixing in next version
10.	[DBG22070249] Some of the "switchport hybrid allowed vlan" command help messages cannot be displayed when used to enter a question mark (?)	Fixing in next version
11.	The Auto Surveillance bandwidth sharing rate is not same 1:1 in the same queue.	

Related Documentation:

- DXS-1210 Series B1 User Manual
- DXS-1210 Series Getting Started Guide