



**Firmware Version:** 4.3.0.10

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## Revision History and System Requirement:

Firmware Version	Date	Model	HW	Note
V4.3.0.2_B016	09-Jun-14	DWL-8610AP	A1	N/A
V4.3.0.2_B021	15-Oct-14	DWL-8610AP	A1	N/A
V4.3.0.2_B042	21-July-15	DWL-8610AP	A1	N/A
V4.3.0.2_B042	12-Nov-15	DWL-8610AP	A1	Add Problems Fixed of V4.3.0.2_B031
V4.3.0.6	10-Mar-17	DWL-8610AP	A1	On top of v4305_B001C
V4.3.0.7_B002C	14-Jan-18	DWL-8610AP	A1	On top of v4307_B001C
V4.3.0.9	13-Mar-18	DWL-8610AP	AX	On top of v4307_B102C
V4.3.0.10	16-Jul-18	DWL-8610AP	AX	On top of v4309

## New Features:

Firmware Version	New Features
V4.3.0.2_B016	Initial release
V4.3.0.2_B021	No new features
V4.3.0.2_B042	<ol style="list-style-type: none"> <li>50703 - Need to add support for Facebook wifi auth.</li> <li>50704 - Need to add support for payment gateway feature (paypal).</li> <li>50706 - Need to add support for payment gateway feature (authorize.net).</li> </ol>
V4305_B001C	Second firmware recovery (In case the first firmware crashed, like bad block issue happens, system will boot up via second firmware)
V4.3.0.7_B002C	N/A
V4.3.0.9	N/A
V4.3.0.10	N/A

## Problems Fixed:

Firmware Version	Problems Fixed
V4.3.0.10	1. HQ20180302000018 QoS Bandwidth control fails when CP is enabled
V4.3.0.9	1. HQ20171220000003 - Client can't get IP from DHCP Server
V4.3.0.7_B102C	1. Fix HQ20171211000005: DWC-1000 + DWL-8610AP - IPv6 (DHCPv6) and normal traffic not working
V4.3.0.7_B002C	1. Included 2.4GHz enhancement patch (Ucode d11ucode_ge24.c) as a hotfix, which has been confirmed with significant improvement on 2.4GHz performance in an open space. 2. WPA2 KRACK vulnerability patch 3. Fix Diag LED in solid red issue (it happens on V4.3.0.7_B001C)
V4.3.0.6	1. HQ20160606000019 [XX10] Managed AP getting crashed in cluster setup continuously 2. [DWL] CVE-2015-1790 OpenSSL: PKCS7 crash with missing Enveloped Content 3. [DWL] CVE-2015-1792 OpenSSL: CMS verify infinite loop with unknown hash function 4. Device is rebooting continuously when user try to send the test mail when mail server security as open. 5. Device is getting crash dump with specific configuration while saving MAC authentication and QOS pages. 6. IPv6-status is changed to "up" after the AP is managed by the controller. 7. Throughput in open environment is very low in AP (lan to wlan) 8. Need to enable Radio-1 and support 802.11n in 5GHz for KR,BY,UA,TJ and UZ country codes in DWL-8610 AP. 9. {Vulnerability} openSSL vulnerability CVE-2016-2106 10. HQ20151006000010, HQ20160126000012 AP getting reboot after running iperf sessions overnight longrun (BRM Ticket# 1015110) 11. HQ20151006000010, HQ20160126000012 Observed skbuff allocation reaching maximum limit of 24000 and kernel panic seen 12. when replayed customer traffic packets on the AP LAN interface with customer 13. configuration and topology 14. HQ20160226000004 LLC frames from client's MAC address appear on LAN port even if client is not yet really connected to the network[DEUR20160224000004-Eastern Europe]

15. HQ20160414000007 Malformed Email Notification that is being blocked ALG-enabled Firewall[DUSA20160412000001-USA]
16. Client statistics are not updating in DWC-2000 when client is connected in certain security modes
17. Time not updating when dst is enable for few countries
18. HQ20160425000010 Remote Packet Capture not working correctly sometimes
19. HQ20160425000010 Remote packet capture functionality is not working when radio or VAP configuration is changed while the remote packet capture is running
20. The throughput test using speedtest mini is giving very less throughput of around 2 mbps in 2.4 GHz with some of the wireless client (DWA-125)
21. Radio status of 8610AP is shown as UP even after AP crosses schedule time when managed to a controller
22. No proper Reason Key is there for disassociating clients for the Forced Roaming feature.
23. Device is not updating the Transmit/Receive drop packets in the status page.
24. [Esdk] All the managed AP's should not be locked up to a single channel for 5GHz band for above mentioned country codes
25. [CLI] No Check for the Max limit for the Read-write community name Field in SNMP settings page.
26. Unable to configure ipv4 ACL rule with source or destination ip address with wildcard mask as 0.0.0.0 and 255.255.255.255
27. [D-lab] APs are getting rebooted while they are getting managed by AP provisioning.
28. Device Time is not updating correctly for North Korea and South Korea Time zones
29. When DST is enabled, the system timezone is changing even when system time does not fall in the DST period for DST supported countries
30. [CLI] No validation for Broadcast/Multicast IP addresses for Management ACL when configured from CLI
31. GUI throwing error when message when we are enabling DST for country which doesn't have support
32. [SNMP] Help content regarding the maximum users that can be added in the SNMPv3 user page is not available.
33. Valid error message was not shown after configuring invalid Broadcast Key Refresh Rate in VAP page.

34. Proper error message is not displaying after configuring invalid session Key Refresh Rate in VAP page.
35. AP is accepting invalid IP address in "Hostname, address, or subnet of Network Management System field" of SNMP page
36. Device is accepting multicast mac address in packet capture configuration
37. HQ20160126000021 [WPA Enterprise] Clients are unable to do
38. Authentication concurrently
39. HQ20151214000001 AP stop process radius request with DWS3160
40. HQ20160120000024 [Facebook WiFi Auth] Took very long time to be
41. redirect to Facebook CheckIn page
42. Recovery Procedure[DRU20160201000002Russia] Unable to upgrade the firmware for DWL6610 AP from boot loader [CFE]
43. CVE20124929SSL/TLS Compression Algorithm Information Leakage Vulnerability
44. Need to sign Web server Certificate with SHA256 Signature algorithm
45. Observed AP is rebooting continuously when country codes are changed continuously.
46. AP rebooting continuously when we push 5GHz a/n/ac (80MHz) for few countries from wireless controller (DWC1000).
47. Vulnerability CVE20153195 for DWL AP's
48. HQ20151104000012 DWL8610AP broadcast SSID which is not exist in the AP
49. HQ20151102000003 Observing data rate less than 100 Mbps in throughput test results when testing in LAN to WLAN direction using Veriwave
50. DBG15100154 While capturing packets in AP on radio interface, some ICMP replies are not visible in interface captures
51. DBG15100266 Periodically occurs high latency issue for 5G
52. Observed common name and other fields are not proper in certificate while login through HTTPS.
53. AP is accepting invalid IP address in Managed AP wireless switch parameters
54. HQ20151112000003 IAID and DUID values are coming as garbage values in the DHCPv6 SOLICIT packet sent by AP
55. HQ20151111000017 IPv4 mask is getting deleted once ap gets ipv6 lease
56. HQ20151007000010 clients are not getting lease with frag\_threshold

	<p>256</p> <p>57. [DWL] CVE-2015-1789 OpenSSL: out-of-bounds read in X509_cmp_time</p> <p>58. [DWL] CVE-2015-1791 OpenSSL: Race condition handling NewSessionTicket</p> <p>59. Some channels are missing in 5 GHz a/n/ac mode for EU countries.</p> <p>60. HQ20151102000016 RF Scan report not sent out randomly</p> <p>61. HQ20151022000009 DWL-8610AP did not receive the bandsteering setting from DWS-4026 correctly all the time</p>
<p>V4.3.0.2_B042</p>	<ol style="list-style-type: none"> <li>HQ20150421000003 MAC Authentication using Radius is not working based on Radius Server response.</li> <li>Forced roaming feature is not working properly</li> <li>Not able to do snmp walk using custom ports</li> <li>HQ20150602000012 Radius settings are overwritten to 10.90.90.1/NOPASSWORD after AP is managed by DWC-2000</li> <li>51796 P1 Two radio show transmit power to 0 in the packets</li> <li>Root Access should be denied for admin CLI user to counter moose vulnerability</li> </ol>
<p>V4.3.0.2_B039</p>	<ol style="list-style-type: none"> <li>HQ20150128000014 DWL-8610 Reboots Frequently when L3-Tunnel Is Used(Mail thread: "[DWL-8610] Patch for Crash Dump on L3-Tunneling")</li> <li>HQ20150414000020 What is "pMsg-&gt;uOP_Code = 224 not support"</li> <li>Device should display proper warning message when we configure Default IPv6 Gateway address with invalid ip.</li> <li>After deleting the snmpv3 user , snmpv3 target for that user should be deleted automatically.</li> <li>Increasing the packet priority for bootp packets.</li> <li>HQ20150206000004 5Ghz issue</li> <li>HQ20150504000014 wl command issue</li> <li>HQ20150427000016 DWL-8610 - reboot issue</li> <li>HQ20150504000021 Wrong Radio Interface for Installing Forced</li> <li>Roaming Threshold on UAP</li> <li>Removing the unwanted permaconfig changes implemented by Alpha(Mail thread: "Regarding perma config new feature in DWL8610 AP.")</li> <li>Wrong firmware version is shown in the altbootver after firmware upgrade(Mail thread: "[DWL-8610] Firmware 4.3.0.2_B037: Upgrade</li> </ol>

	<p>13. to Both Partitions")</p> <p>14. Need to add support for AC modes in Hong Kong country(Mail thread: "DWC-2000 ---- 11AC Mode for Hong Kong")</p> <p>15. device need to accept ssl certificates with 2048 signature length</p> <p>16. Device is vulnerable for Clickjacking attack.</p> <p>17. No CSRF protection, able to change admin password when clicked csrf.html which is located other than http server</p> <p>18. Cookie not marked as secure-only when logging in via https</p> <p>19. No CSRF protection for DWL-6600 webpages</p>
V4.3.0.2_B037	<p>Reverting the L3 tunnel changes(mail thread: "[DWL-6600 &amp; DWL-8610AP]: Change Logs for March Month End Cumulative Hotfix Release.")</p> <p>HQ20150407000013 WEB GUI display "error" information after we change channel</p> <p>HQ20150330000016 Invalid source address of L2 Distributed Tunneling Mode on 8610AP while management IP via DHCP</p> <p>HQ20150414000018 Need your help to add the patch in the next hot fix release</p> <p>HQ20150312000016 Unable to capture tx packets on 5G.</p> <p>HQ20150421000015 DWC-2000 power value error after reboot AP</p> <p>HQ20150415000008 DWL-8610 Does Not Accept Some Radio Settings from Controller</p> <p>HQ20150429000005 Hidden SSID</p> <p>HQ20150318000028 WDS configuration</p> <p>NA Mail thread: "Re: FW Upgrade Twice to Upgrade Once"</p> <p>HQ20150212000010 WDS is not working</p>
V4.3.0.2_B036	<p>HQ20150316000007 DNS retransmits when cp is enabled.</p>
V4.3.0.2_B035	<p>[DWL-8610] Removing Unneeded/Redundate Code</p> <p>band steering should be disabled in device factory default condition.</p> <p>Need to increase the transmit power for all the countries according to the standards.</p> <p>Support to receive the band steering setting from controller</p> <p>Support for the permaconfig feature.</p> <p>HQ20150212000010 WDS is not working</p>
V4.3.0.2_B034	<p>HQ20150323000012 DWL-8610AP reboot issue(CP SLA issue)</p> <p>HQ20150305000015 DWC-2000 with DWL-8610&amp; wireless Authentication(DNS issue)</p>

	<p>HQ20150204000015 DWL-8610AP freeze issue The correct power output(mail thread: "RE: Power Table for DWL-8610") The throughput issue(mail thread: "[BCM953012ER] Throughput Improvement for Fastpath 6.5.1.1")</p>
V4.3.0.2_B033	<p>HQ20141208000011 DWL-8610AP send the wrong MAC in CP with DWC-2k HQ20150202000003 Upgrading Firmware Makes the Certificate Deleted HQ20150224000043 Failed to Send IP Addresses to End Clients when Working with Another AP-in-Client Mode</p>
V4.3.0.2_B031	<p>Clear et1macaddr to solve Upgrade speed very slow when we use AP firmware download feature. (HQ20141201000004, HQ20140926000014, HQ20140919000015)</p>
V4.3.0.2_B02x	<p>B027 HQ20140709000006 --- AP will hang up after a period of time running GPL issue: Remove the 'UNKNOWN' string with GPL tarball. B026 HQ20141028000009 Multicast over WDS issue[DRU20141024000008-Russia] HQ20140915000010 DWL-8610AP---Channel info not consistent across standalone and managed and spec of DFS[DUSA20140913000002-USA] HQ20140929000020 DWL-8610: Invalid 5GHz Eligible Support Channels Transmit to Switch - [D-Link HQ] HQ20140902000010 DWL-8610: AP Provisioning Does Not Work HQ20141111000011 DWL-8610 - no 80 MHz choosable for country CH HQ20141107000030 DWL-8610 Does Not Randomly Select a Statistics Report Time HQ20140814000015 DWL-8610AP 802.11ac is not advertised when TKIP is enabled[DUSA20140814000001-USA] HQ20140528000009 DWL-8610AP---Low Datarate on AC, WPA2 with TKIP &amp; AES enabled.[DRU20140527000001-Middle East] Make DWL-8610 can do auto rebuild when it upgrade firmware. B025 Fix: WiFi Speed Optimization[DLA20140926000001-Latin America] (p.s. 4.3.0.2_B024 didn't fix this bug) B024 Fix: WiFi Speed Optimization[DLA20140926000001-Latin America] (p.s. 4.3.0.2_B023 didn't fix this bug)</p>

	<p>B023 Fix: WiFi Speed Optimization[DLA20140926000001-Latin America]</p> <p>B022 Fix: Hidden SSID Impacts Beacon Transmission of Other SSIDs (HQ20140915000021)</p>
V4.3.0.2_B021	<ol style="list-style-type: none"> <li>1. Fix 80MHz support for certain countries [<a href="#">HQ20140925000003</a>]</li> <li>2. Random reboot [<a href="#">DEUR20140910000012</a>]</li> <li>3. Naming issue on the GUI under managed mode [<a href="#">HQ20140919000011</a>]</li> <li>4. MAC white list issue [<a href="#">DGC20140730000001</a>]</li> <li>5. Issue with newer Apple devices where connectivity might be loss after returning from sleep state [<a href="#">HQ20140718000002</a>]</li> <li>6. Fix scheduler support [<a href="#">HQ20140821000006</a>]</li> <li>7. Slow throughput with certain country code [<a href="#">HQ20140825000011</a>]</li> <li>8. Slow throughput with VLAN tags [<a href="#">HQ20140725000005</a>]</li> <li>9. Incorrect Bootevn -d altbootver [<a href="#">HQ20140806000001</a>]</li> <li>10. Change DDP packet from every 10s to 30s [<a href="#">HQ20140626000015</a>]</li> <li>11. Change ARP packet from 10s to 30s [<a href="#">HQ20140626000015</a>]</li> <li>12. AP will enter anon-responsive state under certain circumstances [<a href="#">HQ20140627000005</a>]</li> </ol>
V4.3.0.2_B016	Initial release

## Known Issues:

Firmware Version	Issues
V4.3.0.9	N/A
V4.3.0.6	N/A
V4.3.0.2_B042	<p>DBG15070120</p> <p>DBG15070080</p> <p>DBG15070083</p> <p>DBG15070085</p> <p>DBG15070086</p> <p>DBG15070203</p> <p>52435 P1 GUI of the other AP's should be accessible by clicking on the IP Address from the access points table.</p> <p>47828 P1 AP is getting reboot continuously when user tries to configure in channel management page in cluster setup.</p> <p>47927 P1 Client QOS is not working for the ipv4/Ipv6 type ACL when Action is permit and match every option is disabled</p> <p>52378 P2 Not able to access device web UI using IPV6 address</p> <p>52429 P2 SNMP functionality is not working on custom ports when configured from CLI across reboot the AP.</p> <p>47836 P2 Unable to configure AP password with special characters in Basic settings page</p> <p>41643 P2 Need to add support for DDP in AP.</p> <p>47748 P1 RF Scheduling functionality is not persisting after reboot of DWL-8610AP as the time settings are getting reset on reboot.</p> <p>42020 P1 AP is not showing upgrade process bar and it is showing white page while upgrading the device.</p> <p>43067 P2 Expiration Date and Time field is not proper in plan selection page of Payment gateway</p> <p>49272 P1 No CSRF protection, able to change admin password when clicked csrf.html which is located other than http server</p> <p>49279 P2 Login page Redirection issue in firmware upgrade.</p> <p>49281 P2 Device is not blocking the access with SSL 3.0 &amp; 2.0 in Google</p>

chrome browser

49299 P2 Hardware version is not showing correctly in D-link network assistance tool

49305 P2 Unable to connect wireless client in congested environment.

52428 P2 Device is not showing the ipv6 gateway(radvd) in the GUI but it is showing in the backend.

52425 P2 Login page Redirection issue in firmware upgrade.

52426 P1 Device is not blocking the access with SSL 3.0 & 2.0 in Google chrome,firefox and IE browser

52432 P1 Mark IP Precedence option functionality in Policy Map Configuration page is not working for IPV6

52434 P2 Device is rebooting for 3 times continuously after upgrade.

52427 P1 5 /2.4 Ghz LED blinking even if we power off the respective radio mode.

45894 P1 Device is vulnerable for Clickjacking attack.

47751 P2 Observed controller radio is setting to 802.11 a/n when changing the country code.

52378 P2 Not able to access device web UI using IPV6 address

52399 P1 There is no help content for some fields which present in GUI at radio page.

49279 P2 Login page Redirection issue in firmware upgrade.

52425 P2 Login page Redirection issue in firmware upgrade.

49281 P2 Device is not blocking the access with SSL 3.0 & 2.0 in Google chrome browser

52426 P1 Device is not blocking the access with SSL 3.0 & 2.0 in Google chrome, firefox and IE browser

49299 P2 Hardware version is not showing correctly in D-link network assistance tool

49269 P1 Radio details Inconsistency in VAP statistics page when a VAP is disabled for one of the radio.

52435 P1 GUI of the other AP's should be accessible by clicking on the IP Address from the access points table.

50563 P1 Can see .svn files in firmware build process.

V4.3.0.2_B021	None
V4.3.0.2_B016	None

**Related Documentation:**

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- DWS-x600AP Series Manual
- DWS-x600AP Series CLI Manual