



Firmware Version: V4.2.0.15
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Revision History and System Requirement:

FW Version	Date	Model	HW	MD5 CHECKSUM
V4.2.0.15	11-Mar-2019	DWL-2600AP	A1/A2	a48a4c2f4016a97331e936adbf7fe162
V4.2.0.14	10-Aug-2018	DWL-2600AP	A1/A2	962fd0bcb00384012e19e1efd8a60e30
V4.2.0.10	8-Apr-2016	DWL-2600AP	A1	f73679a0c4144774279e7345cabd1070
V4.2.0.2	26-Jun-2015	DWL-2600AP	A1	219fa9e9a5fb8f47801cb399d3441130
V4.2.0.1	24-Sep-2012	DWL-2600AP	A1	

New Features:

Firmware Version	New Features
V4.2.0.14	<ol style="list-style-type: none"> 1. Support Wireless ARP suppression mode support in standalone mode
V4.2.0.10	<ol style="list-style-type: none"> 1. Configuration reconstruct, negating the need to perform factory default reset after FW upgrade. 2. Support payment gateway in managed mode. 3. Support Perma Config. 4. Support Forced Roaming.
V4.2.0.2	<ol style="list-style-type: none"> 1. Add CLI commands to turn off all LEDs. <ol style="list-style-type: none"> a. "get system led" b. "set system led [on/off]" (after "set system led [on/off]", need to type CLI command - "save-running", then reboot device.) 2. RF scheduler 3. Update patch for CE EN 300328 v1.8.1 regulation 4. HTTP Redirect feature [SNR/ 8600AP patch] 5. "special" character for email server name and WPA-PSK 6. DHCP: multi-cast change to uni-cast.
V4.2.0.1	Initial release

Problems Fixed:

Firmware Version	Problems Fixed
V4.2.0.15	<ol style="list-style-type: none"> 1. Fix the wireless clients getting disconnected by AP due to inactivity detection during heavy traffic scenarios (android smartphones) [DRU20170504000003] 2. Update the channels as per the new Wi-Fi frequency table v20181102 3. Fix the unable to connect a wireless client when DWL-2600AP is managed when

	<p>port vlan is configure as general mode. [DI20170331000002]</p> <ol style="list-style-type: none"> 4. Fix the L2 tunneling is enabled, and client is unable to get IP address after multiple client connection attempts [IMA20180715000001] 5. Fix the Radio Scheduling is not working and time is not getting pushed properly from controller to managed AP.
<p>V4.2.0.14</p>	<ol style="list-style-type: none"> 1. WPA2 KRACK vulnerability patch 2. Fix LLC frames from client's MAC address appear on LAN port even if client is not yet really connected to the network. [DEUR20160224000004] 3. Fix E-mail notification is blocked by ALG-enabled firewall. [DUSA20160412000001] 4. Fix the vulnerability the PKCS7_dataDecodeFunction in crypto/pkcs7/pk7_doit.c in OpenSSL before 0.9.8zg, 1.0.0 before 1.0.0s, 1.0.1 before 1.0.1n, and 1.0.2 before 1.0.2b allows remote attackers to cause a denial of service (NULL pointer dereference and application crash) via a PKCS#7 blob that uses ASN.1 encoding and lacks inner EncryptedContent data. [CVE-2015-1790] 5. Fix OpenSSL vulnerability CMS verify infinite loop with unknown hash function. [CVE-2015-1792] 6. Fix integer overflow in the EVP_EncryptUpdate function in crypto/evp/evp_enc.c in OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h allows remote attackers to cause a denial of service (heap memory corruption) via a large amount of data. [CVE-2016-2106] 7. Fix time is not updated when Daylight Saving Time is enabled. 8. Fix time is still changed even system is not in Daylight Saving Time period or the countries which don't have Daylight Saving Time. 9. Fix with maximum of 32 characters not able to login to AP to enable debug logs. 10. Fix existing GUI session is not expired after changing password from CLI. 11. Fix existing SSH session is not expired after disabling the SSH service. 12. [CLI] Fix no check for maximum limit for the Read-write community name Field in SNMP settings page. 13. Fix device time is not updated correctly for North Korea and South Korea Time zones. 14. Fix in SNMP page Hostname field is accepting 252 Characters where max limit is 253 and the Error should be proper when multicast ip is configured in IPV4 address field. 15. Fix the offset value is not proper on date and time setting page. 16. Fix Http Certificate Expiration Date is not update properly when AP date is set after 2017.

17. Fix valid error message was not shown after configuring invalid Broadcast Key Refresh Rate in VAP page.
18. Fix AP is accepting invalid IP address in "Hostname, address, or subnet of Network Management System field" of SNMP page.
19. [CLI] Fix no validation for Broadcast/Multicast IP addresses for Management ACL when configured from CLI.
20. Fix SNMP help content regarding the maximum users that can be added in the SNMPv3 user page is not available.
21. Fix proper error message is not displaying after configuring invalid session Key Refresh Rate in VAP page.
22. Unable to configure the maximum characters for Community name for traps and Host name or IP Address in SNMP page.
23. Fix device is accepting multicast mac address in packet capture configuration.
24. Fix spell mistake in help page of client QOS ACL page.
25. Fix AP is not sending disassociation packet when radio is changes to OFF state.

V4.2.0.10

1. Fix wrong source IP address in E-mail Alert.
2. Fix email alert is not working for specific domains.
3. Fix unable to connect wireless clients after enabling the Client QOS.
4. Fix DHCP packets are not being forwarded when Frag Threshold set to 256. [DUSA20150911000002]
5. Fix packets from wireless client were not forwarded when wireless client re-authed by WEP + 802.1x [DI20151215000002]
6. Fix the size of the confirm button on http redirection page is too small to be clicked when using mobile device. [DRU20151102000004]
7. Fix AP is not redirecting to login page after changing the password.
8. Fix wireless client is not getting disconnected after changing the password of SSID in VAP.
9. Fix login password is visible in plain text in burp proxy intercept during device UI access with burp tool capturing the HTTP packet.
10. Fix WDS link is not getting established between two DWL-2600 devices in which one is managed with controller.
11. Fix disabling RADIUS Failthrough option for ipv4 functionality is not working.
12. Fix disabling RADIUS Failthrough option for ipv6 functionality is not working.
13. Fix able to establish WDS link with different security mode.
14. Fix RF Scan report not sent out randomly.
15. Fix Dynamic ACL assignment issue. [DLA20150814000001]
16. Fix the transmit power value configured from CLI is not properly set to AP.

17. Increase password length to 32 characters.
18. Fix RF scheduling is not working when schedule profile is configured for weekend.
19. Fix firmware upgrade, configuration upload and download are not working from SNMP MIB browser in DWL 2600AP.
20. Fix clients are unable to do authentication concurrently with WPA Enterprise encryption. [[DI20150317000002](#)]
21. Fix AP stops process radius request with DWS-3160. [[DEUR20150917000002](#)]
22. Facebook Wifi authentication takes too much time.
23. Fix SSL/TLS Compression Algorithm Information Leakage Vulnerability. [[CVE-2012-4929](#)]
24. Enhance to sign Web server Certificate with SHA-256 Signature algorithm.
25. Fix AP is accepting invalid IP address in Managed AP wireless switch parameters.
26. Fix OpenSSL Vulnerabilities.
 - i. out-of-bounds read in X509_cmp_time [[CVE-2015-1789](#)]
 - ii. Race condition handling NewSessionTicket [[CVE-2015-1791](#)]
 - iii. Remote attackers are able to obtain sensitive information from process memory by triggering a decoding failure in a PKCS#7 or CMS application. [[CVE-2015-3195](#)]
27. Modify common name and other fields in certificate while login through Https.
28. Fix Qos diffserv rules are not applying properly in the AP.
29. Fix Mark IP Precedence option functionality in Policy Map Configuration page is not working for IPV6.
30. Fix AP GUI cannot be accessed when configured subnet mask with all zeros.
31. Fix device doesn't accept to delete the SNMPv3 groups if it contains SNMPv3 users.
32. Fix device allows to remove default groups RO/RW in SNMPv3 group page.
33. Fix device is not updating the system time with +offset value.
34. Fix help content missing for some fields in radio page.
35. SSID scheduler enhancement to increase maximum schedule profiles from 16 to 34.
36. Fix Clickjacking attack Vulnerability.
37. Fix Locked option for single radio is not getting saved in channel management page.
38. Fix apRadioNumAssociatedStations is always displaying zero irrespective of the clients connected in snmp mib browser. [[DRU20140506000002](#)]
39. Fix device is getting rebooted after configuring WPA personal key with spaces.

- 40. Device is not showing any error message when adding SNMP v3 view as same name,same oid with type as same include/exclude.
- 41. Fix AP is getting reboot continuously when user tries to configure in channel management page in cluster setup.
- 42. According to latest 802.11i WPA2 must always enable and WPA & TKIP must be inter-dependent.
- 43. Fix not able to access device GUI with IPv6 address.
- 44. Fix GUI of the other AP's not accessible by clicking on the IP Address from the access points table.
- 45. Fix clients are not authenticated with WPA-Enterprise when lost managed by the DWC-2000 Controller. [DI20150601000009]
- 46. Fix DWL-x600AP wl command issue.
- 47. Fix not able to do SNMP walk when using custom ports.
- 48. Fix unable to run traffic between wireless clients when one client is connected with WPA-Personal and the other with WPA-Enterprise. [DUSA20131115000001]
- 49. Fix to display correct warning message when configuring IPv6 default IP address with invalid IP address.
- 50. Fix device cannot accept SSL certificates with 2048 signature length.
- 51. Fix no CSRF protection, able to change admin password when clicked csrf.html which is located other than http server.
- 52. Fix Cookie not marked as secure-only when logging in via https.

1. Update fixes from 8600AP (Broadcast key refresh issue and DHCP priority issue) Broadcast key refresh issue (DUSA20131115000001/HQ20131216000011) DWL-8600_FW_v4_1_0_14_TEST_e3ae.tar

2. Sync the fix from DWL-8600AP (DWL-8600_FW_v4_1_0_14_B018.tar) DWL-2600AP-- reopen case for stuck WLAN (HQ20140708000007)

V4.2.0.2

3. OpenSSL CCS Injection vulnerability (man-in-the-middle attack)
Security Vulnerabilities Addressed: OpenSSL before 0.9.8za, which allows man-in-the-middle attack, and consequently hijack sessions or obtain sensitive information.

Reference: CVE-2014-0224

<http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-0224>

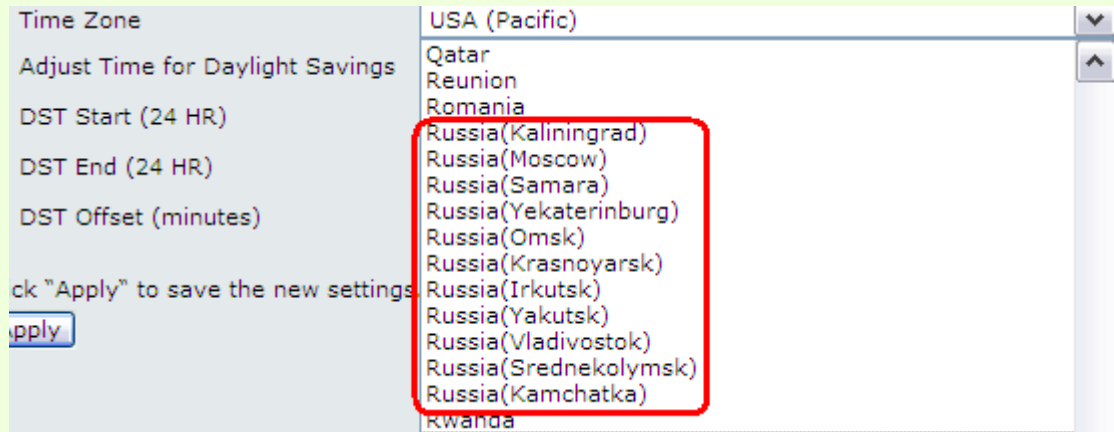
https://www.openssl.org/news/secadv_20140605.txt

Solution: We updated OpenSSL patch from 0.9.8j to 0.9.8za that addresses the

vulnerability CVE-2014-0224 on hotfix v4201_B009 and v4202 for DWL-2600AP.

4. Sync the iPad issue fix in DTrack case HQ20140718000002 from DWL-8600AP firmware "DWL-8600_FW_v4_3_0_1_Beta_e8ec.tar"

5. Russia Time Zone update [HQ20141111000003]



6. DBG14100162, forced roaming [HQ20141124000011]

V4.2.0.1 1. Setting the time zone in the NTP menu to Poland will cause the AP to go into an infinite reboot cycle. [HQ20120914000006]

Known Issues:

Firmware Version	Issues
V4.2.0.15	<ol style="list-style-type: none"> When use the password to login AP Web GUI and captured the packet, we can decode the real password. L2 tunneling function not work. HTTPS brute force attack prevention failure.
V4.2.0.13	<ol style="list-style-type: none"> GUI access might be slow. Sometimes WDS Link cannot be established in managed mode. Some extra field of radio2 are present in DWL 2600AP's help content. Sometimes we cannot see "Operation Succeed" message on the GUI pages after clicking on the save button Observed more than 10 continual ping loss while doing fping to internet IP 8.8.8.8 for establishing WDS link. Observed null (zero) values while running the iperf traffic from LAN to WLAN in both the radio (2.4 GHz and 5 Ghz). Power LED is not blinking properly when AP is rebooted from GUI or CLI.

	<ol style="list-style-type: none"> 11. Observed 10 continual ping loss to internet (8.8.8.8) in long duration test for the radio 2.4GHz with the security WPA personal(TKIP) 12. The client is getting disconnected due to some special environment or condition when running traffic as torrent download, mail surf and video streaming from Internet. 13. Referrer value is empty, invalid request when accessing UI in managed mode via Opera Browser
V4.2.0.10	<ol style="list-style-type: none"> 1. GUI access might be slow. 2. Spell mistake in help page of client QOS ACL page. 3. Sometimes WDS Link cannot be established in managed mode. 4. Some extra field of radio2 are present in DWL 2600AP's help content. 5. AP is accepting invalid IP address in "Hostname, address, or subnet of Network Management System field" of SNMP page. 6. Sometimes we cannot see "Operation Succeed" message on the GUI pages after clicking on the save button 7. [CLI] Automatic Channel Option in Radio Page Configured from CLI is not reflecting in GUI. 8. Observed more than 10 continual ping loss while doing fping to internet IP 8.8.8.8 for establishing WDS link. 9. Observed null (zero) values while running the iperf traffic from LAN to WLAN in both the radio (2.4 GHz and 5 Ghz). 10. Power LED is not blinking properly when AP is rebooted from GUI or CLI. 11. Observed 10 continual ping loss to internet (8.8.8.8) in long duration test for the radio 2.4GHz with the security WPA personal(TKIP)
V4.2.0.2	V4.2.0.2 doesn't support Perma Config, Facebook Wi-Fi, Payment gateway.
V4.2.0.1	Initial release

Related Documentation:

- DWL-X600AP_8610AP_6610AP_6700AP_8710AP Unified AP Series Manual
- DWL-x600AP Series CLI Manual