

Software Name: **AWK-3131A/4131A**

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/Enhancements	Bugs Fixed/Changes	Note
1.12	Build_18090617	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP AWK-4131A-JP-T	New Features: N/A Enhancements: N/A	Bugs Fixed: 1. DFS: fix DFS cannot work normally Changes: 1. AeroMag: hidden the unnecessary SSID when AWK configure as AeroMag AP	N/A
1.11	Build_18062617	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP AWK-4131A-JP-T	New Features: 1. AeroMag: Support AeroMag Client 2. NAT: support 1-to-1 NAT 3. DHCP client: support DHCP option 12 (hostname = device name) 4. DHCP client: support DHCP option 50 (requested IP address) 5. Network status: provide bridge status via SNMP Enhancements: 1. WLAN: support the WLAN system log version 2 2. AeroMag: add system log for taking channel analysis, applying the configuration 3. MAC clone: add system log for MAC clone 4. Quick setup: if RF type is pure N, WEP is not supported 5. Quick setup: add WEP length checker for WEP security 6. Quick setup: TKIP supports on B/G/BGMixed/A only 7. Quick setup: if RF type is pure N, AES/TKIP mixed are not supported	Bugs Fixed: 1. WLAN: fix Rx stuck 2. WLAN: fix Tx hang caused by the interrupt (0x0000 0000) messages 3. WLAN: fix DUT reboots if it roams for many times 4. WLAN: fix AP always works on 20MHz, if there is another AP on the specified channel when it booting up 5. WLAN: fix that the AP with multiple VAPs just only works on the rate of 20MHz, even if its bandwidth is configured as 20/40MHz 6. WLAN: fix GARP doesn't be sent out, if driver cannot get the interface IP or cannot alloc malloc (skb) 7. WLAN -status: fix the value of WLAN assoc rx/tx pkts/bytes always is 2147483647, if the value is over 2147483647 8. Turbo roaming: fix that un-expected roaming occurs, because that the AP Alive check timer resumes after receiving packets in foreign channel 9. Turbo roaming: fix "AP candidate threshold" does not work when both of AP alive check and Client-based Turbo Roaming are enabled 10. Turbo roaming: fix roaming log has wrong SNR 11. AeroMag: fix WEB can't get the latest information after refreshing channel or re-configure 12. AeroMag: fix MAC Clone can't work after applying the new configuration 13. AeroMag: fix AeroMag AP gives configuration to other devices which in the same group before re-generate it 14. RSSI report: fix not report the scanned node which is not updated for 1 sec 15. RSSI report: fix the facility and severity on RSSI report are inappropriate 16. RSSI report: fix the noise/SNR are not accurate sometimes 17. Config: fix cannot run the bandwidth to 20/40MHz in client mode randomly 18. WEB: fix the login message shall apply the activated configuration. 19. WEB: fix the length of SSID can't be longer than 32 20. WEB: fix cannot input 240 characters on web login message and login authentication failure message 21. WEB: fix UI does not show unit of roaming threshold (SNR) 22. WEB: fix system log cannot be exported via Firefox 59.0.223 23. WEB: fix if RF type is 2.4G type, cannot enable Turbo Roaming via web UI	N/A
1.10	Build_18032720	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP AWK-4131A-JP-T	New Features: 1. N/A Enhancements: 1. N/A	Bugs Fixed: 1. Fixed CVE-2017-14459, Telnet, Serial console, SSH will reject the invalid characters to prevent from injection attack Changes: 1. N/A	N/A

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1.9	Build_18012818	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP AWK-4131A-JP-T	<p>New Features: 1. N/A</p> <p>Enhancements: 1. N/A</p>	<p>Bugs Fixed: 1. Web server will reject invalid characters including `` ` ` ; &</p> <p>Changes: 1. Change the format of device name to AWK-3131A_[the last six digits of MAC address] 2. Show complete S/N</p>	N/A
1.8	Build_17122516	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP AWK-4131A-JP-T	<p>New Features: 1. Support Wi-Fi Mirror Port 2. Support AeroLink Protection with SNR check 3. Support AeroLink Protection with VLAN 4. Support the SNR/Noise floor on MXview dashboard.</p> <p>Enhancements: 1. Optimized the roaming recovery time for the scenario that 4-4 EAPOL packet is dropped. 2. Optimized the packets lost under following two conditions: i. Master and Slave connection under 802.11n mode and WPA/WPA2. ii. The traffic comes behind Master to the slave and the devices behind the slave at the same time</p>	<p>Bugs Fixed: 1. Fixes that Wi-Fi client signal strength is not correct and not accessible after connected AP disappeared. 2. Fixes that Syslog server still work while server port is not assigned. 3. Fixes that roaming event is recorded as connection event, if the first bytes of AP's MAC is 0x00. 4. Fixed that If the operation mode is client-router, AWK could not use WPA/WPA2 enterprise mode 5. Fixes that if AP using channel 140 changes to client mode, channel width cannot be set to 20/40. 6. Fixes that user cannot access web console if AWK recieved IP again from DHCP server. 7. Fixes that if the AWK is DHCP client and enables MAC clone, AWK cannot receive the IP from Cisco AP and then Cisco AP will disconnnet AWK. 8. Fixes that the network looping causes AeroLink Proction works abnormally. 9. Fixed that AeroLink does not support slave mode 10. Fixes that if the roaming message is larger than 128 bytes, the some syslog messages are missing. 11. Fixes that the maximum transmission power is allow to set the value which is out of the valid range. 12. Fixes that error message for account settings is incorrect if account name is duplicated. 13. Fixes that the cookie paring is incorrect 14. Fixes that engineer cannot retrieve information via OneKeyInfo. 15. Fixes that AWK cannot reboot and configure via MXconfig under some circumstances. 16. Fixed that if the size of configured value is larger than 64 bytes, the configuration setting will not succeed.</p> <p>Changes: 1. Does not support to configure 0 for all TCP/UDP port settings. (TCP/UDP 0 port shall be reserved).</p>	N/A
1.7	Build_17102616	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP AWK-4131A-JP-T	<p>New Features: 1. N/A</p> <p>Enhancements: 1. N/A</p>	<p>Bugs Fixed: The following CVE's are fixed. 1. CVE-2017-13077 2. CVE-2017-13078 3. CVE-2017-13080</p> <p>Changes: 1. N/A</p>	N/A

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1.6	Build 17091517	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP, AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP, AWK-4131A-JP-T	<p>New Features:</p> <ol style="list-style-type: none"> Support AeroMag. Support quick setup. Support MOXA security level 1. Support WPA/WPA2 Mixed. Support Trouble shooting. Support management encryption. Master mode supports multiple slaves. Support Enable/Disable Ethernet LAN interface. Support static MAC Clone. Support channel 120-128 in US model. <p>Enhancements:</p> <ol style="list-style-type: none"> 802.3az is not supported. [SNMP] Use iface speed as ifHighSpeed on ifXTable. [Web] Do not show inactive timeout in client-router mode. LLDP does not support 802.3. Encrypt/Decrypt Remote Protocol data payload. [LLDP] Delete the 1000baseT_Half/1000baseT_Full when the AR934x_ETH_FAST feature enable on the mport ethtool. Porting OpenSSL 1.1.0e is supported. Change roaming threshold default value to -65 under legacy mode, -55 under 2.4GHz N mode, and to -50 under 5GHz N mode Max TX Power changes as following. <table border="1"> <thead> <tr> <th></th> <th>US</th> <th>EU</th> <th>JP</th> </tr> </thead> <tbody> <tr> <td>2.4 GHz</td> <td>26 dBm</td> <td>18 dBm</td> <td>18 dBm</td> </tr> <tr> <td>5 GHz (UNII-1)</td> <td>23 dBm</td> <td>23 dBm</td> <td>23 dBm</td> </tr> <tr> <td>5 GHz (UNII-2)</td> <td>23 dBm</td> <td>23 dBm</td> <td>23 dBm</td> </tr> <tr> <td>5 GHz (UNII-2e)</td> <td>23 dBm</td> <td>23 dBm</td> <td>23 dBm</td> </tr> <tr> <td>5 GHz (UNII-3)</td> <td>23 dBm</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		US	EU	JP	2.4 GHz	26 dBm	18 dBm	18 dBm	5 GHz (UNII-1)	23 dBm	23 dBm	23 dBm	5 GHz (UNII-2)	23 dBm	23 dBm	23 dBm	5 GHz (UNII-2e)	23 dBm	23 dBm	23 dBm	5 GHz (UNII-3)	23 dBm	-	-	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> Fixed RF type mixed mode connectivity to different pure RF type modes at the same time. Fixed rebooting issue while scanning DFS. Fixed booting up failure issue. Fixed interoperability with Cisco/Aruba/Ruckus AP by sending EAPOL frame with QOS data. Fixed ping web console page attack from unknown commands. Fixed Rx stuck by patching qca-wifi-10.4 (QSDK). Fixed AP kernel panic when 128 clients connect and some clients are trying to reconnect. Fixed CCA will reset to default when channel changed. Fixed roaming with multicast traffic will causing client cannot connect issue. Fixed roaming time abnormal records in system log when client connection fail. Fixed multi-channel roaming failed issue. Fixed bmiss will not trigger while bgscan due to bmiss counter reset issue. Fixed RSSI report format incorrect issue. Fix error when old log version upgrade to the new log version. Fixed RSTP looping because of no preroot_port. Fixed RSTP recovery too long issue and web display bug. Fixed SNMP cannot provide wireless status information issue. Fixed loading the file which cannot be decrypted would cause iw_web crash. Fixed incorrect interface name on LLDP status page and incorrect device name on bridge table page issue. Fixed to set the LAN IP failed when the client-router mode via wireless search utility. Fixed ifXTable has null vale on SNMP. Fixed web console incorrect information under client-router mode Fixed kernel panic while Turbo roaming enabled. Fixed kernel panic while interface is not yet ready and to fetch noise floor at the same time. Fixed Turbo Roaming choosing next AP with accurate roaming difference. 	N/A
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1.5	Build 17041601	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP, AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP, AWK-4131A-JP-T	<p>New Features:</p> <ol style="list-style-type: none"> N/A <p>Enhancements:</p> <ol style="list-style-type: none"> [Web] Login denied when CSRF (Cross-Site Request Forgery) attack is detected. 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> [Accounts] Fixed that backdoor account is transparent to unauthorized users. [Wireless Search Utility] Fixes that service crash while data encryption under special commands. [Web] Fixes that cookies are same when multiple users access website at the same time. [Web] Fixes that web server crash, if the HTTP POST is in invalid format. [Web] Fixes that web server crash, if the cookie is NULL with special URL. <p>Changes:</p> <ol style="list-style-type: none"> N/A 	N/A																								
1.4	Build 17031018	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP, AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP, AWK-4131A-JP-T	<p>New Features:</p> <ol style="list-style-type: none"> [Accounts] Support 8 accounts, including administrators and normal users: administrators can read/write all settings in webpage, yet users are only allowed to read webpage. [SNMP] AWK uses the first account (list in the first entry) out of 8 accounts for your SNMP v3. [Web] Cookie is generated every time users login. [Web] web server only allows one user to send the data back to avoid CSRF (Cross-Site Request Forgery) Vulnerability. [Web] Giving a warning message for suggesting using HTTPS when user is changing password via HTTP. [Web] Encrypt the password, before transmitting it. [Wireless Search Utility] Encrypt the data between the device and Wireless Search Utility. <p>Enhancements:</p> <ol style="list-style-type: none"> Default password changes from root to moca. 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> [Web] Fixes that some file/information are accessible, even if user does not Login. [Web] Fixes that browser will re-direct to invalid web page, if the web page is tampered. [Web] Fixes that unauthorized Linux commands is able to execute via webpage. [Web] Fixes that web server crash, if the URL is invalid <p>Changes:</p> <ol style="list-style-type: none"> N/A 	N/A																								
1.3	Build 16100315	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP, AWK-3131A-JP-T AWK-4131A-EU, AWK-4131A-EU-T AWK-4131A-US, AWK-4131A-US-T AWK-4131A-JP, AWK-4131A-JP-T	<p>New Features:</p> <ol style="list-style-type: none"> SNMP supports the information of WLAN connection status and Client/Slave connecting time. Supports new regulatory of CE certificate, EN 300 328 V1.9.1 Supports KC certificate and RCM. Support MXview Wireless Dashboard <p>Enhancements:</p> <ol style="list-style-type: none"> SNMP does not support "Disable" for WLAN operation mode. Default value setting of TX Power is 20dBm. 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> Fixed kernel panic when AP serves over 120 Client at the same time. Fixed web crash when there are too many web error messages. Fixed the channel information on overview page if DFS channel changing Fixed SNR showing on MXview. Fixed channel information under sniffer mode. <p>Changes:</p> <ol style="list-style-type: none"> N/A 	N/A																								

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1.1	Build 15122211	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T	<p>New Features:</p> <ol style="list-style-type: none"> [Channel] 5GHz DFS Channel Support [Distance] 5GHz Long Distance Communication Support [Diagnosis] One-key Infor Support [Network Status] ARP Table, Bridge Status, LLDP Status, Routing Table, RSTP Status <p>Enhancements:</p> <ol style="list-style-type: none"> Enlarge Tx buf from 1024 to 4096. Edit Rx Packet Count(ATHR_RX_PKTS_CNT) to 100 and Number of Rx Packet(AG7240_NUMBER_RX_PKTS) to 4096. Remove all "select all" checkbox in all "lkogs and Notification" pages. Show SNTP in string instead of slect box if "IWCONFIG_SUPPORT_NTF" is not set and there's only one time protocol option. Change "Restart" logo. 	<p>Changes:</p> <ol style="list-style-type: none"> Fixed kernel panic when AP serves over 120 Client at the same time. Fixed web crash when there are too many web error messages. Fixed the channel information on overview page if DFS channel changing Fixed SNR showing on MXview. Fixed channel information under sniffer mode. <p>Bugs Fixed:</p> <ol style="list-style-type: none"> N/A 	N/A
1.0	Build 15061120	N/A	AWK-3131A-EU, AWK-3131A-EU-T AWK-3131A-US, AWK-3131A-US-T AWK-3131A-JP AWK-3131A-JP-T	<p>New Features:</p> <ol style="list-style-type: none"> First Created. <p>Enhancements:</p> <ol style="list-style-type: none"> N/A 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> N/A <p>Changes:</p> <ol style="list-style-type: none"> N/A 	N/A