



Firmware for AWK-1131A Series Release Notes

Version: v1.19	Build: Build_18121212
Release Date: Dec 28, 2018	

Applicable Products

AWK-1131A-JP-T, AWK-1131A-EU, AWK-1131A-US, AWK-1131A-US-T, AWK-1131A-EU-T, AWK-1131A-JP

Supported Operating Systems

N/A

New Features

- IEC 62443-4-2 support
- 3rd SNMP trap server
- Web certificate support

Enhancements

N/A

Bugs Fixed

- Abnormal roaming handoff time if MAC clone is enabled
- Device reboot if it receives an abnormal beacon which does not follow IEEE standard.
- Issue with the error handler for abnormal Wi-Fi packets

Changes

N/A

Notes

N/A



Version: v1.18	Build: Build_18100315
Release Date: Oct 30, 2018	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Abnormal behavior of the DFS function.

Changes

N/A

Notes

N/A

Version: v1.17	Build: Build_18072017
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

- Quick Setup wizard.
- Wi-Fi certificate function.
- Static MAC clone function.
- Wi-Fi Mirror port.
- Management Frame Encryption.
- Tool for setting up Cybersecurity IEC 62443-4-2 Level 1.
- DHCP option 12 (hostname = device name).
- DHCP option 50 (requested IP address).
- Locate Device function.

Enhancements

- Supports WLAN system log version 2.
- Supports bridge status via SNMP.
- System log will now have SNMP information if users save configuration settings via SNMP.
- Devices will record a system log entry if an invalid configuration setting is reset to the default value.
- Bridge interface has the ability to forward broadcast ARP reply.
- A new roaming configuration has been created to replace the current configuration to enhance RX accuracy.
- Improved Tx/Rx accuracy.
- A system log file can now record up to 3000 entries.

Bugs Fixed

- WLAN Tx/Rx is stuck.
- An AP always works on 20 MHz if there is another AP on the channel when it is booting up.
- Tx hang caused by interrupt (0x0000 0000) messages.
- Facility and severity values in the RSSI report are incorrect.
- Traffic can't pass if the WEP key index is 1.
- DUT reboot if client roams multiple times.
- WLAN is unstable if LFPT and MAC clone are enabled at the same time.
- Configuration import fails if there is a space between an item and its value in the configuration import file.
- SNMP can't get the value of "entryIndex" from the "BridgeStatusEntry" table .
- AP broadcast button can't be enabled/disabled.
- Configuration Import & Export issue in the web console if the encryption method is used to import configuration via ABC-01.
- RSSI report doesn't report the node that is not updated for 1 sec.
- Cannot change the bandwidth to 20/40 MHz in client mode in some cases.
- Roaming log has wrong SNR when the roaming is caused by low signal strength.
- Unexpected roaming occurs because AP Alive check timer resumes after AP receives packets on a foreign channel.
- System log file cannot be exported in Firefox 59.0.2.
- Channel survey table on the Wi-Fi Settings page of Quick Setup shows incorrect information if a

device is running in client mode.

- WLAN connected time is always "0" on MXview & SNMP.
- AP with multiple VAPs only works at 20 MHz even though its bandwidth is configured as 20/40 MHz.
- Login message should use the activated configuration.
- AP alive check does not work in some cases.
- WLAN assoc rx/tx pkts/bytes is always 2147483647 for a value > 2147483647.
- The wireless disable function does not work.
- Cannot configure messages with 240 characters for web login and login authentication failure messages.
- The length of the WEP key 4 does not correspond to the key type and key length in Wi-Fi security of quick setup.
- Network information on the Overview page does not match with the asqc page.
- DHCP client list information can be set via SNMP.
- User can execute Linux commands by entering their username or password in the login window.
- Cannot reboot device through MXconfig.
- Show an error message if the RF type 2.4G N mode (G/N, B/G/N, N only) is selected on the Advanced WLAN Settings page.
- User can't increase the minimum length setting for passwords if the current password is less than a certain length.
- An User-level user can't use the Diagnostics and Wi-Fi Mirror Port functions.
- User-level user can't export current device information on the Troubleshooting page.
- Network information is not current IP/netmask/Gateway when AWK acts as the DHCP client.

Changes

- Initial network IP is set to 169.254.0.1 before an IP address is assigned by the DHCP server for the first time.
- Changed the max length allowed for user passwords from 16 to 32.
- Changed the default value of device name to Model name_xx:yy:zz, xx:yy (zz is the last 3 bytes of the device MAC).
- Changed AP's inactive timeout range to 8 to 240 sec.
- Changed the range for roaming threshold and AP candidate threshold from 5-40 to 5 -60.
- Changed the UI field name "Signal Strength" to "Signal Level" on the wireless status page.
- Added a "skip" option on the login page where the user is asked to modify the password.
- Applied uniform style to the email, syslog, system, trap server, time setting, and wireless certification pages.
- All buttons on the System Log page are disabled when the log entries are cleared.



Notes

N/A



Version: v1.16	Build: Build_17102617
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- The following CVE's are fixed: CVE-2017-13077, CVE-2017-13078, and CVE-2017-13080

Changes

N/A

Notes

N/A



Version: v1.15	Build: Build 17101216
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Enhanced the interoperability with APs from other vendors by adjusting the QoS TID behavior.

Bugs Fixed

- Kernel panic issue when DFS is triggered.

Changes

N/A

Notes

- This version includes the changes from firmware v1.12 and v1.13.



Version: v1.14	Build: Build 17081814
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Enhanced the interoperability with APs from other vendors by adjusting the QoS TID behavior.

Bugs Fixed

- Kernel panic issue when DFS is triggered.

Changes

N/A

Notes

- This version does not include the changes Firmware v1.12 and v1.13.



Version: v1.13	Build: Build 17041601
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- [Web] User cannot log in when a CSRF (Cross-Site Request Forgery) attack is detected.

Bugs Fixed

- [User Accounts] Backdoor account is transparent to unauthorized users.
- [Wireless Search Utility] Services crash during data encryption for certain commands.
- [Web] The same cookie is used when multiple users access the web page at the same time.
- [Web] Web server crashes if the HTTP POST command is in an invalid format.
- [Web] Web server crashes if a cookie is NULL for certain URLs.

Changes

N/A

Notes

N/A



Version: v1.12	Build: Build 17031018
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

- Supports up to 8 accounts and username can be modified.
- Supports two categories of users; Admin and User—Admin can read/write from/to configuration information and User is only allowed to read the configuration.
- [SNMP] The user account created first is the designated SNMP v3 account.
- [Web] A cookie is generated for each login.
- [Web] After sending out data through the web page, the web server only allows one user to send data back to safeguard against the CSRF (Cross-Site Request Forgery) Vulnerability.
- [Web] Alerts users to use HTTPS when changing passwords.
- [Web] Encrypts the password before transmitting it.
- [Wireless Search Utility] Encrypts data transferred between devices and the Wireless Search Utility.

Enhancements

- Removes the backdoor account.

Bugs Fixed

- [Web] Some files/information accessible without users logging in.
- [Web] Browser will redirect to an invalid web page if the web page is tampered.
- [Web] Linux commands that are not allowed can be entered on the page and the web server will execute them.
- [Web] Web server crashes if the URL is invalid.

Changes

N/A

Notes

N/A



Version: v1.11	Build: Build 16100315
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

- SNMP supports WLAN connection status and Client/Slave connecting time.
- Supports new regulations for CE certificate and EN 300 328 V1.9.1 standard.
- Supports the MXview Wireless Dashboard.
- KC and RCM certification.

Enhancements

- Default value setting of TX Power is 20 dBm.
- Modified the format for the associated client connection period from dd hh:mm:ss to seconds.

Bugs Fixed

- Kernel panic when AP serves over 120 clients simultaneously.
- Browser crash issue when there are too many web error messages.
- Channel information update issue on the overview page if the DFS channel changes when a radar signal is detected.
- SNR display issue on MXview.
- Fixed channel information update issue in the Sniffer mode.

Changes

- Removed "Disable" option for the WLAN operation mode in SNMP.

Notes

N/A



Version: v1.10	Build: Build 16022214
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

- Added troubleshooting support for faster diagnostics (Maintenance > Troubleshooting).
- Added ARP Table, Bridge Status, LLDP Status, Routing Table, and RSTP Status.

Enhancements

- Limits the multicast traffic to 150M on Ethernet interface to avoid CPU overload.
- APs can now send gratuitous ARP to wireless clients after association.
- Updated the web UI to prevent Cross-Site Script (XSS) attack.
- Updated the WLAN function and changed the bmiss count from 5 to 10.
- Updated DFS function to raise radar SNR threshold to 30 for the FCC type 5 radar.
- Updated chpasswd encrypt method from DES to MD5 to increase the length of the password.
- Updated the format of the DHCP Client List.

Bugs Fixed

- Port setting failure in “TCP/UDP port filters”.
- Issues with AP IP address display on the wireless status page.
- Time Zone setup issue.
- Static DHCP mapping failure issue.

Changes

- Allows the selection of channel 14 in the JP model.
- Frees skb_buff when the bridge device isn't running to avoid memory leak.
- Improves the turbo roaming break time to < 150 ms when TKIP security is selected.
- Modifies the MAC Clone function to allow devices to take on the original Moxa MAC address when the cloned device is removed.

Notes

N/A



Version: v1.8	Build: Build 15061212
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

- DFS channel support. Note: AP mode does not support channels 120, 124, and 128, but client mode supports these channels.
- Supports Client-based Turbo Roaming.
- Supports the Sniffer operation mode.

Enhancements

- WLAN stability improvements.
- Maximum wireless transmission power increased to be consistent with the hardware capability.
- Changed default value of minimum transmission rate from 13 Mbps to "0 - default disabled".
- LLDP uses device's MAC as its source MAC, instead of Moxa-specified MAC: Format "00:90:E*:00:00:81".

Bugs Fixed

- UI Improvements.
- Improved the associated client list display and DHCP clients display tables.
- No antenna selection for Antenna A/B and Auto Mode.

Changes

- Changes to the network settings for LLDP.
- Removed the "short guard interval" setting.

Notes

N/A



Version: v1.1	Build: Build 14071711
Release Date: N/A	

Applicable Products

AWK-1131A-EU, AWK-1131A-US, AWK-1131A-JP, AWK-1131A-EU-T, AWK-1131A-US-T, AWK-1131A-JP-T

Supported Operating Systems

N/A

New Features

- First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A