

===== Software Version TW-EAV510 AC 1.1.00-53 Released on
20190107 =====

3 upgrade files in same ZIP packet

1. TW-EAV510AC-LTE_v1.1.00-53_20190107.afw --> Normal
firmware upgrade.
2. TW-EAV510AC-LTE_v1.1.00-53_20190107.bfw --> With new
boot loader included, suggest to upgrade this type for all .49
firmware.
3. TW-EAV510AC-LTE_v1.1.00-53_20190107.img --> To be
used when device enter emergency mode. Not include new boot loader.

Based on version 1.1.00-52 and added the following changes.

1. Fixed the issue that firmware upgrade failed sometimes.
2. Issue fixed for LRO error message.
3. Added 3G/4G LTE into WAN mode setting.

Note: Issue 1 must upgrade .bfw file to upgrade the boot loader
version to 00.01.11rc-02.

===== Software Version TW-EAV510 AC 1.1.00-52 Released on
20190103 =====

Based on version 1.1.00-51 and added the following changes.

1. Improved the style of table/button on WEB GUI.
2. Improved the LTE module power reset procedure.

===== Software Version TW-EAV510 AC 1.1.00-51 Released on
20181218 =====

Based on version 1.1.00-50 and added the following changes.

1. Fixed the issue that language selection and firmware upgrade do
not work with Safari browser.

===== Software Version TW-EAV510 AC 1.1.00-50 Released on
20181210 =====

Based on version 1.1.00-49 and added the following changes.

1. Improved the DSL detectoin behavior.
2. Added IMEI information for TW-EAV510 AC-LTE on WEB GUI.
3. Improved the 3G/4G log display.

4. Improved the version display of LTE module.

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Software Version TW-EAV510 AC 1.1.00-49 Released on
20181126 =====

Based on version 1.1.00-48 and added the following changes.

1. Changed wording "EP06" to "LTE-CAT6".
2. Improved the load balancing function for SSL connection.

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Software Version TW-EAV510 AC 1.1.00-48 Released on
20181113 =====

Based on version 1.1.00-47 and added the following changes.

1. Added OpenVPN support.

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Software Version TW-EAV510 AC 1.1.00-47 Released on
20181108 =====

Based on version 1.1.00-46 and added the following changes.

1. Added patch for "TCP ACK Loop" and "TCP DUP ACK".
2. Once LTE module is down, wait for 3 seconds then up again everytime.
3. Added Linux fine tune script.

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Software Version TW-EAV510 AC 1.1.00-46 Released on
20181026 =====

Based on version 1.1.00-45 and added the following changes.

1. Fixed the bug that WEB GUI will crash when setting 3G/4G/LTE network preference.
2. Updated Finnish translation.
3. Changed TW-EAV510 AC-LTE CAT 6 default prefix of Wi-Fi SSID to "TW-EAV510AC".

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Software Version TW-EAV510 AC 1.1.00-45 Released on
20181017 =====

Based on version 1.1.00-44 and added the following changes.

1. Improved the network informatoin update for Quectel module only.
2. Changed wording "USB dongle" to "LTE module", and "plugged" to "detected" for all TW-EAV510AC series.
3. Improved the dirver support for Huawei E3276 LTE dongle.
4. Improved the keep alive function for LTE connection.

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Software Version TW-EAV510 AC 1.1.00-44 Released on
20181008 =====

Based on version 1.1.00-43 and added the following changes.

1. Added QENG/QCAINFO/QNWINFO AT command for Quectel module only.

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Software Version TW-EAV510 AC 1.1.00-43 Released on
20181003 =====

Based on version 1.1.00-39 and added the following changes.

1. Added interface selection for port forwarding.
2. Removed the WPS PIN code support function to improve the security.
3. Improved the 3G/4G LTE dongle support module.
4. Updated Finnish translation.

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Software Version TW-EAV510 AC 1.1.00-39 Released on

20180816 =====

Based on version 1.1.00-38 and added the following changes.

1. Added WAN interface selection for port forwarding setting.
2. Hide WiFi key display and can be shown when move mouse over the field.

===== Software Version TW-EAV510 AC 1.1.00-38 Released on 20180514 =====

Based on version 1.1.00-37 and added the following changes.

1. Fixed the DNS security issue CVE-2017-14491.
2. Fixed the issue that 2.4G auto channel+11N only+40MHz, iPhone7 cannot connect issue.
3. Fixed the bug that NAT lookback is not work when internal and external port are different.
4. Fixed some WEB GUI minor bugs.

===== Software Version TW-EAV510 AC 1.1.00-37 Released on 20180413 =====

Based on version 1.1.00-36 and added the following changes.

1. Fixed the issue that IPTV has mosaic when doing speedtest with upload direction.

===== Software Version TW-EAV510 AC 1.1.00-36 Released on 20180401 =====

Based on version 1.1.00-35 and added the following changes.

1. Improved the DHCP Server module to fix the problem that over 30 clients connecting at the same time.
2. Fixed the bug that Statistics-> Interface shows TX error always with ADSL connection.
3. Fixed the probelm that Load Balancing function can not be disabled if 3G/4G connection is the first priority.
4. Improved the watch dog monitor function.
5. Improved the DHCP Client module to fix the problem that DHCP PID is not removed correctly.

===== Software Version TW-EAV510 AC 1.1.00-35 Released on 20180321 =====

Based on version 1.1.00-34 and added the following changes.

1. Fixed the bug that port forwarding table shows many UPnP entries with Plex media server.

===== Software Version TW-EAV510 AC 1.1.00-34 Released on 20180313 =====

Based on version 1.1.00-33 and added the following changes.

1. Added Zhone special customization and sftware requirements.
2. Added G.INP option back and set to disable as default.
3. Updated auto firmware path for TW-EAV510ACv2 and TW-EAV510AC-LTE.

===== Software Version TW-EAV510 AC 1.1.00-33 Released on 20180305 =====

Based on version 1.1.00-32 and added the following changes.

1. Fixed the issue that ADSL+LTE dongle may not work correctly after software rebooting.
2. Changed MAC display format to xx:xx:xx:xx:xx:xx and all use

uppercase.

3. Fixed the bug that refresh button will make PPPoE/LTE connection connect and disconnect on status page.
4. Enabled hardware watchdog for TW-EAV510ACv2 and TW-EAV510AC+LTE.
5. Improved the LTE dongle support module for TW-EAV510ACv2 and TW-EAV510AC-LTE.
6. 3G/4G/LTE Info page can show current band frequency for TW-EAV510AC-LTE.
7. Fixed the NAT loopback issue with 3G/4G LTE connection.

===== Software Version TW-EAV510 AC 1.1.00-32 Released on 20180227 =====

Based on version 1.1.00-31 and added the following changes.

1. Fixed the bug that NAT loopback function may not work in some cases.
2. Improved the VLAN ID setting and won't block VLAN ID 1~10 now.

===== Software Version TW-EAV510 AC 1.1.00-31 Released on 20180222 =====

Based on version 1.1.00-30 and added the following changes.

1. Improved the load balancing multi-WAN handling.
2. Improved Reboot and Firmware Upgrade WEB GUI page, it will jump to login page directly after rebooting or upgrading done.

===== Software Version TW-EAV510 AC 1.1.00-30 Released on 20180213 =====

Based on version 1.1.00-29 and added the following changes.

1. Removed some unnecessary files in httpd module.
2. Added note message for load balance function on WEB GUI.
3. Added Interface selection for DDNS function on WEB GUI. The interface must be specified when load balance function is enabled.

===== Software Version TW-EAV510 AC 1.1.00-29 Released on 20180212 =====

Based on version 1.1.00-28 and added the following changes.

1. Changed default TKIP AES Group Key Update Timer to 3600s from 86400s.
2. Improved the DHCP client module to prevent the case that traffic will be stopped for 1~2 seconds when doing WAN IP renew.

Note: The NAT Loopback won't work when client and server are on the same PC. In case, can just use local host IP 127.0.0.1 to test server function.

===== Software Version TW-EAV510 AC 1.1.00-28 Released on 20180208 =====

Based on version 1.1.00-26 and added the following changes.

1. Added Load Balance support. The optoin can be found at WAN -> Default Routing. Once checked, it can use bandwidth of all WAN connections.
2. Supported Huawei E3276 dongle.
3. Removed HWVER file.
4. Changed RESET button behavior as below.
0~1s: Do nothing.

1s~5s: Do firmware upgrade automatically.
over 5s: Reset to factory default.

===== Software Version TW-EAV510 AC 1.1.00-26 Released on
20180126 =====

Based on version 1.1.00-25 and added the following changes.

1. Improved Virtual Server port range checking rule, it is now follow list order for traffic matching.
2. Improved the configuration check function to avoid configuration conflict issue between different firmware version.

===== Software Version TW-EAV510 AC 1.1.00-25 Released on
20180124 =====

Based on version 1.1.00-24 and added the following changes.

1. Fixed the problem that WiFi will be lost after upgrading without reset to factory default.
2. Supported DDNS updating interval setting on WEB GUI.

===== Software Version TW-EAV510 AC 1.1.00-24 Released on
20180123 =====

Based on version 1.1.00-23 and added the following changes.

1. Updated the Finnish translation on WEB GUI.
2. Changed the default time zone server.
3. Improved the performance for bridge channel.
4. Supported Huawei E392 dongle.
5. Supported two more DDNS service provider, TZ0 and dyndns.dk.

===== Software Version TW-EAV510 AC 1.1.00-23 Released on
20180104 =====

Based on version 1.1.00-22 and added the following changes.

1. Added 3G/4G LTE IPv6 information to IPv6 status page.
2. Improved 3G/4G LTE module.
3. Added L2TP/IPSec function support on WEB GUI.

Note:

1. Still use DSL driver version v134fc17.
2. No longer to support pure L2TP connection, it is L2TP/IPSec always to support Android, MacOS/iOS and Windows 10.
3. 3G/4G LTE IPv6 may still not work well and keep working on it.

===== Software Version TW-EAV510 AC 1.1.00-22-new-DSP
Released on 20171227 =====

Based on version 1.1.00-22 and added the following changes.

1. Changed to new DSL PHY Driver version v136h720 to fix two issues below.

-Fixed low download rate with ZTE DSLAM(BCM chip)

-Fixed the large attenuatoin value display issue on WEB GUI.

Note: Old driver version: v134fc17.

===== Software Version TW-EAV510 AC 1.1.00-22 Released on
20171227 =====

Based on version 1.1.00-21 and added the following changes.

1. Fixed the bug that DDNS update not work well on 3G/4G LTE

connection.

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Software Version TW-EAV510 AC 1.1.00-21 Released on 20171227
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Based on version 1.1.00-19 and added the following changes.

1. Fixed the bug that DDNS update not work well on 3G/4G LTE connection.
2. Removed Interface select option from DDNS setting page. It is follow the default gateway interface.
3. Changed DDNS page refresh timer to 120s from 60s.

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Software Version TW-EAV510 AC 1.1.00-20 Released on 20171220
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Based on version 1.1.00-19 and added the following changes.

1. Fixed the bug that devcie can not reset to factory default after upgrading.

Note: It will force router to reset to factory default after upgrading to version 1.1.00-19.

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Software Version TW-EAV510 AC 1.1.00-19 Released on 20171220
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Based on version 1.1.00-18 and added the following changes.

1. Updated new default settings for DSL driver.
2. Improved the DDNS update schedule.
3. Fixed the bug that ACL can not block PING from WAN side correctly.
4. Added modify function for ACL, IP/Port Filtering and Port Forwarding on WEB GUI.
5. Removed some unnecessary syslog to prevent any confusion.
6. Fixed the bug that ACL default settings for LAN ICMP is wrong.
9. Improved the LAN/WLAN Clients table display on WEB GUI.
10. Updated default settings for WLAN 2.4G and 5G.
11. Updated default settings for DoS. It is set to disable as default.
12. Fixed some minor issues.
13. Enabled Watchdog function as default. It will be trigged after 30s when system is jam.

Note: It will force router to reset to factory default after upgrading to version 1.1.00-19.

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Software Version TW-EAV510 AC 1.1.00-18 Released on 20171114
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Based on version 1.1.00-17 and added the following changes.

1. Updated Finnish language for WEB GUI.

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Software Version TW-EAV510 AC 1.1.00-17 Released on 20171111
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Based on version 1.1.00-14 and added the following changes.

1. Changed 2.4G default channel to Auto and bandwidth to 20MHz.
2. Supported keep alive function for 3G/4G LTE dongle.
3. Modified default ACL setting and allows PING/HTTP/HTTPS to device's LAN IP only.

4. RESET Button support behavior below:
- Less than 2s, trigger auto firmware upgrade.
 - 2s~5s, just reboot.
 - over 5s, reset to factory default.

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Software Version TW-EAV510 AC 1.1.00-14 Released on
20171108 =====

Based on version 1.1.00-09 and added the following changes.

1. Support LED on/off by pressing WiFi button.
 - Press 1 sec and release can trigger LED on/off function.
 - Press and hold over 5 seconds can trigger WiFi on/off function.
2. Updated Finnish language for WEB GUI.
3. Improved syslog display.
4. Fixed some minor issues.
5. Fixed the issue that DoS will block multicast traffic.
6. Improved the WiFi key and can accept special character like "?T5rE39KL!x?gk!zQA?".

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Software Version TW-EAV510 AC 1.1.00-09 Released on
20171025 =====

Based on version 1.1.00-07 and added the following changes.

1. Fixed the issue that LAN PC will get IP address from WAN side sometimes.
2. Supported HTTPS access to router's WEB GUI.
3. Supported Interface Grouping for WAN pure bridge port and specify LAN/WLAN port.
4. Added Multicast setting on WEB GUI.
5. Set default WEB GUI login password to be the same as WiFi key.
6. Added TR069 setting page with hidden link <http://192.168.0.254/tr069config.asp>.
7. Added new patch for Wireless driver to prevent KRACK attack.

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Software Version TW-EAV510 AC 1.1.00-07 Released on
20171003 =====

Based on version 1.1.00-06 and added the following changes.

1. IPSec Gateway Address can support both IP address and domain name.
2. Supported 3G/LTE band mode setting for TW-LTE v3 dongle.
3. Updated MCC/MNC list for Finland.
4. Added EWAN port status to WEB GUI. It is located at Status -> LAN Port.
5. Improved the 3G/4G dongle detection method.
6. Added TCP/UPD option for IP Port Filtering web page.
7. Changed some wording display on WEB GUI.

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Software Version TW-EAV510 AC 1.1.00-06 Released on
20170830 =====

Based on version 1.1.00-05 and added the following changes.

1. Fixed the bug that 3G/4G LTE dongle disconnect/connect button not work issue with Finnish language.
2. Updated MCC/MNC table for TeliaSonera.
3. Improved the log display in Console.
4. Added DoS attack log to System Log with level Alert.

5. Updated new WiFi driver to v3.6.2 (2017-07-07 from v3.6.1(2017-05-19)).

===== Software Version TW-EAV510 AC 1.1.00-05 Released on 20170824 =====

Based on version 1.1.00-04 and added the following changes.

1. Added new description for ACL setting page.
2. Added 3G/4G LTE dongle band selection and AT command field in 3G/4G LTE settings page.
3. Set WPS disabled as default.
4. Set Port Forwarding enabled as default.

Note: AT command response can be found in system log.

===== Software Version TW-EAV510 AC 1.1.00-04 Released on 20170816 =====

Based on version 1.1.00-03 and added the following changes.

1. Moved DoS to section Firewall.
3. Changed System Log display level to informational.
4. Improved the system log display, top one has the latest log shown.
5. Fixed the bug that tracert will show wrong model name.
6. Improved the WAN interface name display on WEB GUI.
7. Changed default gateway priority to 4G/VDSL/ADSL/EWAN.
8. Change DHCP Pool calculator algorithm, if last one is 1 or 254 with class C, then pool range is 100~200 always.
9. Updated Finnish translation for System Log page.
10. Improved the 3G/4G operator name display in 3G/4G/LTE status page.

===== Software Version TW-EAV510 AC 1.1.00-03 Released on 20170816 =====

Based on version 1.1.00-02 and added the following changes.

1. Removed TR069 function totally.
2. Updated Finnish translation.
3. Enable G.INP option on WEB GUI. WAN -> DSL Settings.
4. Added 3G/4G status page and mode.
5. Added patch to improve the throughput between LAN/WLAN and WAN.
6. Make IPv6 disabled as default.

===== Software Version TW-EAV510 AC 1.1.00-02 Released on 20170811 =====

Based on version 1.1.00-01 and added the following changes.

1. Added DDNS dy.fi support.
2. Updated Finnish translation for WEB GUI.
3. Supported remote firmware upgrade from Telewell server automatically.
4. Changed WiFi default security to WPA2 Mixed, both TKIP and AES enabled.
5. Updated WiFi default PSK to up to 16 characters.
6. Improved some wording display on WEB GUI.

7. Supported Auto Reboot function on WEB GUI.