

LTE5398-M904

Generic Version

Firmware Release Note

V1.00(ABQV.2)C0

Date: Jun. 28, 2022

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Reviewer:

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Revision History

| Date | Release | Author | Description |
|------------|---------|------------|---|
| 2020/03/19 | 1.0 | Chin-Fu Ku | V1.00(ABSV.0)b1 fw release |
| 2020/03/23 | 1.1 | Chin-Fu Ku | V1.00(ABSV.0)b2 fw release |
| 2020/04/06 | 1.2 | Chin-Fu Ku | V1.00(ABSV.0)b3 fw release |
| 2020/04/16 | 1.3 | Chin-Fu Ku | V1.00(ABSV.0)b4 fw release |
| 2020/06/16 | 1.4 | Chin-Fu Ku | V1.00(ABSV.0)b5 fw release |
| 2020/07/10 | 1.5 | Chin-Fu Ku | V1.00(ABSV.0)b6 fw release |
| 2020/08/25 | 1.6 | Chin-Fu Ku | V1.00(ABQV.0)b7 fw release Change firmware ID from ABSV to ABQV. |
| 2020/08/27 | 1.7 | Chin-Fu Ku | V1.00(ABQV.0)C0 fw release |
| 2021/05/26 | 1.8 | Chin-Fu Ku | V1.00(ABQV.1)b1_D0 fw release |
| 2022/04/11 | 1.9 | Chin-Fu Ku | V1.00(ABQV.1)b2 fw release |
| 2022/05/04 | 1.10 | Chin-Fu Ku | V1.00(ABQV.1)C0 fw release |
| 2022/06/23 | 1.11 | Chin-Fu Ku | V1.00(ABQV.2)b1 fw release |
| 2022/06/28 | 1.12 | Chin-Fu Ku | V1.00(ABQV.2)C0 fw release |

ZYXEL LTE5398-M904 Generic

V1.00(ABQV.2)C0

Release Note

Date: Jun 28, 2022

Supported Platforms

ZYXEL LTE5398-M904

Versions

Bootbase version : U-Boot 1.1.3 (Mar 18 2020 - 14:54:49)

Firmware version : V1.00(ABQV.2)C0

Kernel version: 3.10.14

WLAN code version: V4.4.2.1_20170829

LTE Module FW version: EG18EAPAR01A08M4G

Firmware image information

| Image | Version | File name | MD5 sum |
|---|---|-----------------------------|---|
| Uboot Image-1: Pre-programming | U-Boot 1.1.3 (Mar 18 2020 - 14:54:49) | uboot-5398- 20200318.bin | 513e972ffcad8c3188eaa96e741771c9 |
| Uboot Image-2: Zyxel uboot update | | 100ABQV2C0.bin | 642519eb90256c21ca744b2fb4f4d1a7 |
| FW Image | V1.00 (ABQV .2)C0 | 100ABQV2C0.bin | 3000ce87988c2a0ecaef71ca24865593 |

Notes:

There are two Bootbase files :

uboot-5398-20200318.bin is used for manufacturing PROGRAMMER to program on the NAND flash

[100ABQV2C0.bin](#) is for zyxel bootloader update usage, **This file with zyxel header and must not directly program to flash. Wrong action will cause the failure of boot.**

Default Settings in Firmware

- Refer to the *.rom in the fw release package.
- Refer to the *.config and *.predef for human readable default configuration.
- *.config define the default value of writable parameters, *.predef define the default value of read only parameters.
- Please use the website <http://jsoneditoronline.org/> to open the *.config and *.predef files.

Modifications in 1.00(ABQV.2)C0

Change to FCS version based on 1.00(ABQV.2)b1.

Modifications in 1.00(ABQV.2)b1

[Configuration Modification]

1. Enable the MRD password.
 - A. The WEB login account: admin and supervisor, default login password is stored in the MRD by random generate.
 - B. The admin default password is stored in MRD password index 1.
 - C. The supervisor/root default password is stored in MRD password index 2.
 - D. The WiFi PSK key default password is stored in MRD password index 1.

[FEATURE ENHACEMENT]

N/A

[BUG FIX]

N/A

Modifications in 1.00(ABQV.1)C0

Change to FCS version based on 1.00(ABQV.1)b2.

Modifications in 1.00(ABQV.1)b2

[Configuration Modification]

N/A

[Feature Enhancement]

1. Support Speed Test.
2. Support Neighbour Cells.
3. Update Italian language string.
4. Support Cell Lock.
5. Support TR-069 Delay Reboot.

[Issue Fix]

1. Fix the USB power control issue.
2. Fix that USB no unmount cause some wrong case.
3. [Vulnerability] clear text storage of sensitive information issue.
4. [Vulnerability] Infinite loop in BN_mod_sqrt() of OpenSSL when parsing certificates.

Update the OpenSSL to 1.1.1n

Modifications in 1.00(ABQV.1)b1_D0

[Configuration Modification]

1. Remove voice related feature.

[FEATURE ENHACEMENT]

1. The WEB admin and supervisor default login password is stored in the MRD by random generate.
(MRD password index 1 and index 2)
2. The WiFi default password is stored in the MRD by random generate.
(MRD password index 1)
3. Th root default password is stored in the MRD by random generate.
(MRD password index 2)
4. Add SIM status page in the Wizard.

[BUG FIX]

1. Correct the typo in CardPage for the signal level: -118-->-115.
2. Special operator environment caused IP mismatch and traffic failure.
3. Trust CA subject is blank after import a Certificates.
4. [SECURITY] To upgrade opensource dnsmasq package with the patches of CVE-2020-25681~25687 security vulnerabilities.
Update the open source tool: dnsmasq from v2.67 to v2.78.
Update the open source tool: openssl from v1.0.1c to v1.1.1b
5. Some special characters in the username and password may cause system crash.
6. FTP unsafe symbolic link.
7. Device will reboot automatically if WiFi SSID setting with command Injection and turn on the WPS function

Modifications in 1.00(ABQV.0)C0

Change to FCS version based on 1.00(ABQV.0)b7.

Modifications in 1.00(ABQV.0)b7

[Configuration Modification]

1. The firmware ID is changed from ABSV to ABQV.

[FEATURE ENHACEMENT]

N/A

[BUG FIX]

1. Issue #14: System should show the current interface of WAN (Cellular/Ether WAN) when user operate.
2. Issue #27: Select to Voice mode from VoIP to VoLTE, the VoIP status page still display "Register action" enabled and registered. Even user disable Register action, after reboot, the "Register action" will be enabled automatically. When user disable SIP Register action, the voice indicator LED become off.
3. Issue #31: SMS Inbox GSM alphabet content display abnormal (Char. become Unicode Hex) after received unicode content SMS. EX: q => 0071
4. Issue #34: While WAN IP change, VoIP service will lost register to server. (EX: APN change or WAN back up active, Cellular WAN <=> Ethernet WAN) Need to disable and enable to register again.
5. Issue #36: WebGUI display wired connected devices under IP Passthrough mode abnormal. WebGUI display "0" device while connecting two clinets to LAN1 and LAN2 port under IP Passthrough mode abnormal.

6. Issue #39: Enable Ethernet WAN and disconnect LTE, the internet LED indicator will become "off"
7. Issue #40: Select VoLTE mode, enable Ethernet WAN and disconnect LTE, internet traffic passthrough by Ether WAN, but the voice LED indicator keep displaying "on".
8. Issue #42: User can enter empty WIFI SSID and WIFI Password, and the setting could be applied successfully on home page (WiFi Settings and Guest WiFi Settings).
9. Issue #43: Enable SMS inbox function will cause webGUI crash with FET SIM Card
After enable "SMS Inbox Enable", GUI pop-up Warning message "It is impossible to retrieve the information now. Please try again". (FET SIM Card only)
10. Issue #61: If user hangs up immediately after making a call and repeats this action several times, the call status account will always accumulate and duration continue counting.
11. Issue #69: The 2G/5G SSID is displayed incorrect in WLAN information of System Info page.
12. Issue #74: The Website Blocked content is displayed empty on the Parental Control page.
13. Issue #76: Device cannot display the SMS Inbox Content normally.
14. Issue #77: The Primary DNSv6 server address is overlapped on device main page.
15. Issue #80: If user setting device not support LTE Band via TR-069 ACS, device will be applied the setting and disconnect with internet, need to setting the correct Cellular Band again.
16. Issue #81: If user set the preferred Access Technology with invalid value "3G" or "4G" via TR-069 ACS, the setting will be applied and the Access Technology field displayed empty on WebGUI.
17. Issue #93 from LTE5388-M804: If specific special characters using GSM-7 encoding will cause SMS inbox content displayed abnormal.

Modifications in 1.00(ABSV.0)b6

[Configuration Modification]

N/A

[FEATURE ENHACEMENT]

N/A

[BUG FIX]

1. Issue #23: When select the log level then pressing re-flash on Web GUI, system will display all the category log. System should only display the assigned category.
2. Issue #25: DHCP lease time is too long to wait with IP Pass through Mode.
3. Issue #27: Select to Voice mode from VoIP to VoLTE, the VoIP status page still display "Register action" enabled and registered.
4. Issue #34: While WAN IP change, VoIP service will lost register to server.
5. Issue #36: WebGUI display wired connected devices under IP Pass through mode abnormal.
6. Issue #39: Enable Ethernet WAN and disconnect LTE, the internet LED indicator will become "off"
7. Issue #42: User can enter empty WIFI SSID and WIFI Password, and the setting could be applied successfully on home page (WiFi Settings and Guest WiFi Settings).
8. Issue #47: WiFi Encryption key Input 64 characters and apply setting on WIFI page, the Encryption key will disappear.
9. Issue #48: WPS Method 3 mode fail on SSID configured display.
10. Issue #52: 5GHz WIFI SSID can't be searched while channel setting 116 (with BW 20/40 MHz and 20/40/80 MHz).

11. Issue #55: After Upgrade firmware via an incorrect file, there is no displayed warning message at WebGUI, then will be back to Login page.
12. Issue #58: If setting WiFi password as 64 characters, the field will display overlapped in Wizard page.
13. Issue #66: User cannot set SMS Inbox Enable normally, the Cellular SMS page will freeze, need to refresh WebGUI.
14. Issue 69: The 2G/5G SSID is displayed incorrect in WLAN information of System Info page.
15. Issue #70: 5G WiFi SSID setting as "St1~!@#\$\$%^&*()-=+_[]\{|,./<?a", the SSID will display incorrectly as "St1~!@#\$\$%^&*()-=+_[]\{|".
16. Issue #70: Sometimes the QR code for WiFi SSID connection is not displayed on the home page.

[ISSUE_CLARIFY]

1. Issue 11: 2.4G WIFI performance is not good on IOS device.
⇒ iPhone 11 should turn off Bluetooth to improve WIFI performance
2. Issue 21: System can't generate the "Error" log on WAN PC. (use Wireshark)
⇒ See the test steps form LTE5388-M804.

Modifications in 1.00(ABSV.0)b5

[Configuration Modification]

N/A

[FEATURE ENHACEMENT]

N/A

[BUG FIX]

N/A

Modifications in 1.00(ABSV.0)b4

[Configuration Modification]

N/A

[FEATURE ENHACEMENT]

N/A

[BUG FIX]

1. Issue #26: With IP Passthrough Mode, VoLTE function can't work and register to server, voice indicator LED also off.
2. Issue #39: Enable Ethernet WAN and disconnect LTE, the internet LED indicator will become "off"
3. Issue #40: Select VoLTE mode, enable Ethernet WAN and disconnect LTE, internet traffic passthrough by Ether WAN, but the voice LED indicator keep displaying "on".
4. #Issue 42: User can enter empty WIFI SSID and WIFI Password, and the setting could be applied successfully on home page (WiFi Settings).
Empty Password will become 64 character password automatically.
User can enter empty WIFI SSID, and the setting could be applied successfully on home page (Guest WiFi Settings).
5. Issue 47: WiFi Encryption key Input 64 charators and apply seting on WIFI page, the Encryption key will disappear.

Modifications in 1.00(ABSV.0)b3

[Configuration Modification]

N/A

[FEATURE ENHACEMENT]

N/A

[BUG FIX]

1. Issue #28: DDNS could not active after CPE reboot.
2. Issue #35: VoIP call waiting function abnormal. Need to reboot device.
3. Issue #42: User can enter empty WIFI SSID and WIFI Password, and the setting could be applied successfully on home page (WiFi Settings).
Empty Password will become 64 character password automatically.
User can enter empty WIFI SSID, and the setting could be applied successfully on home page (Guest WiFi Settings).
4. Issue 43: Enable SMS inbox function will cause webGUI crash with FET SIM Card.
5. Issue #49: Voice mode setting page disappeared except for English, user can't setting and select VoIP/VoLTE mode.
6. Issue #2: Setting the lease time of DHCP server as 1 min but the lease time is 2 min when we capture the DHCP packet by Wireshark.
7. Issue #21: System can't generate the "Error" log on WAN PC. (use wireshark)
8. Issue #22: System can't generate the any log on LAN PC. (use wireshark)

9. Issue #24: Device should follow the Syslog Protocol "RFC 5424" to define the log category.
10. Issue #32: Web word description error on Ethernet WAN setting page (LAN port4).
11. Issue #50: WIFI 2.4G Zyxel_63A5_guest3 invalid (BSSID 00:00:00:00:00:00).
12. Issue #53: In APN IPv6 enabled environment, the system will always crash during LTE connection after accumulating 128 times IPv6 Up and down.
Abnormal behavior of CPE under IPv4v6 dual stack is active.
The file, zcfg_tr98_map.json, is enlarged with appending IPv6 Addr/Prefix mapping while the IPv6 is active, but not removed from it while IPv6 is inactive.
13. Issue #57: DUT cannot use FET SIM Card(B/3/7) connection to internet.
14. Issue #62: WPS HW button function is not working
15. Issue #63: DHCP server only distributes one IP address when DHCP server pool setting 2 IP address.
16. Issue #66: User cannot set SMS Inbox Enable normally, the Cellular SMS page will freeze, need to refresh WebGUI.
17. Issue #67: The File Sharing Services is not working, and the power LED didn't displayed blue.

Modifications in 1.00(ABSV.0)b2

[Configuration Modification]

N/A

[FEATURE ENHANCEMENT]

[BUG FIX]

1. Fix the LTE connection issue.
2. Fix the Web GUI cellular band display incorrect issue.

Modifications in 1.00(ABSV.0)b1

Function base is the LTE5388-M804 V1.00(ABSQ.0)b3

[Configuration Modification]

1. Use EG18 LTE module.
2. Disable call waiting and hide call waiting options on WEB GUI

[FEATURE ENHACEMENT]

[BUG FIX]

1. Empty SSID and password could be set on popup page of wifi setting and guest wifi setting.
2. VoIP call waiting function abnormal. Need to reboot device.