ZyXEL

AMG1312-T10B

Firmware Release Note

V2.00(AAFP.5)C0

Date: Jan. 26, 2015

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ZyXEL AMG1312-T10B
V2.00(AAFP.5)C0

Release Note

Date: Jan. 26, 2015

Supported Platforms:

ZyXEL AMG1312-T10B (Mediatek 63365)

Versions:

Bootbase version: V2.05 | 08/27/2014
Firmware version: V2.00(AAFP.5)
Kernel version: 2.6.22.15
DSL code version: FwVer:3.20.36.0_A_TC3087 HwVer:T14.F7_11.2
WLAN code version: 2.5.0.11

Notes:

1. Kernel version shell command : uname –a
2. DSL code version shell command : wan adsl fwversion
3. WLAN Driver version shell command : iwpriv ra0 show driverinfo
4. User need to accept cookies in their web browsers to use the device GUI correctly.

Features list:

✓ ADSL/2/2+ WAN Mode
✓ Built-in Firewall to keep users from common Internet attacks
✓ Wireless LAN 802.11b/g/n standards supported
✓ QoS embedded to help prioritize important services
✓ TR Protocol Family supported for industry-level device management

Modifications in V2.00(AAFP.5)C0

1. Based on V2.00(AAFP.5)b2 create V2.00(AAFP.5)C0
   - Change firmware ID from V2.00(AAFP.5)b2 to V2.00(AAFP.5)

Modifications in V2.00(AAFP.5)b2

- [BugFix]
   1. Misfortune Cookie vulnerability for TR-069 connection request

Modifications in V2.00(AAFP.4)C0

2. Based on V2.00(AAFP.4)b3 create V2.00(AAFP.4)C0
   - Change firmware ID from V2.00(AAFP.4)b3 to V2.00(AAFP.4)

Modifications in V2.00(AAFP.4)b3

- [BugFix]
   1. [217] LAN PC cannot go to Internet via primary 3G WAN when default DSL PPPoE is up
   2. [218]Cannot resolve DNS via 3G under EthWAN mode
   3. [219] Cannot resolve DNS via 3G under EthWAN mode(2)

Modifications in V2.00(AAFP.4)b2

1. Based on V2.00(AAJC.5)b1 create V2.00(AAFP.4)b2
- [Feature]
   1. Add Trust domain on Remote MGMT
   2. Support Bonjour service to support Apple wireless printing
   3. PPP disconnect/connect / IPoE release/renew buttons
      - Add button (System Info page) to manually control broadband
   4. TR-069 update ROM-D
      - FileType = 3
      - filename = rom-d
   5. TR-069 erase ROM-D
      - SetParameterValues InternetGatewayDevice.DeviceConfig.EraseROMD=Yes
   6. TR-069 readable passwords
      - Enable: tcapi set ZyXEL_ Entry TR069PasswordsReadable Yes
- [BugFix]
   1. [CSO#140302125] Random Periodic Inform Issue(UPNP solution)

2. [CSO#140800106] FTP rom-d upload issue
3. [SVD#213] Sometimes DUT occur call trace when do firmware upgrade by WebGUI.
4. Bootbase update to V2.05
    ◆ [CSO] expressboot tool update ROM-D and ROM-0 at the same time will update fail
    ◆ Disable reset romd through press reset button
5. [CSO# 140302266] HT Mostar - AMG1202-T10B - TR-069 LAN port statistics missing
    ◆ InternetGatewayDevice.LANDevice.1.LANEthernetInterfaceConfig.n
6. [SVD#217] The description of Parental Control webpage has wording typo.
7. [SVD#218] Pre-Shared Key of More AP webpage have unnecessary symbol ":".

Modifications in V2.00(AAFP.4)b1

● [Feature]
1. Reset Button behavior
    ◆ Change the reset button behavior for consistence (from 10 sec to 5 sec). Also to remove the backdoor mechanism
2. WAN autosense
    ◆ Check with ES of AMG13xx auto sense WAN RDv6.doc
3. Auto channel scan
    ◆ change UK Auto scan by 1-11, but can manually select the channel 12 & 13
4. Supervisor password
    ◆ If password is blank. System will auto-generate password.(verify with AutoGenSupervisorPassword tool)
5. Wifi driver update to 2.5.0.11
● [BugFix]
1. [140302125] TR-069 INFORMs stop
2. [140400202] AMG1302-T10B / Config Reset (M247)
3. [140302125] [NewCall] - Random Periodic Inform Issue
4. [140401371] [KCOM] - Adding a port forward rule followed by a Reboot results the unit to factory defaults (RESET).
5. [140400243] PPP disconnection / dropping connections (Merlin Telecom)
6. Interface of QoS rules display DSL WAN interface under Ether WAN mode.
7. Firewall rule shouldn't add a new rule successful when it don't input anything on

Name field.

8. After set static IPv6 address, can't return to set static IPv6.
9. The memory usage of cfg_manager will increase with time because memory leakage.
10. DHCP Relay Server Address have error typo
11. DUT will hang on when WebGUI to upgrade FW from WAN PC.
12. DUT wouldn't show login page by Reset to default/Change dsl to Ethernet mode/Upgrade FW from WebGUI
13. Under Ethernet mode the Virtual Device of Port 1 show "LAN1".
14. DMZ set 0.0.0.0 to disable fail

Modifications in V2.00(AAFP.3)C0

● [BugFix]
1. [207] PPPoE connection unstable when PPPoE is configure at first bootup

Modifications in V2.00(AAFP.3)b3

● [BugFix]
1. [195] LAN host cannot get IP under DUT bridge VLAN passthrough
2. [196] NAT page will show blank page after enable/disable.
3. [200] DynDNS enter blank wording in User name or Password column will crash
4. [201] MyZyXEL DDNS doesn't work under EtherWAN
   ◆ Hide MyZyXEL because it is for Thailand
5. [202] GUI pop up incorrect warning message of "Please enter Dial string" when trying to enable 3G Backup (WAH1000)
6. [204] In Usb page, GUI password shouldn't show blank when check to edit but it has inputted password.
7. [206] USB LED does not blink when transferring files to USB flash drive or under 3G dongle data transmitting
8. By default, "Connection Request Path" is blank in TR-069 page

Modifications in V2.00(AAFP.3)b2

● [Feature]
1. Need support a VID passthrough on bridge mode
   ◆ BT's environment will have a tagged packet from the LAN side, in this situation our device need support can let the tagged packet passthrough on bridge mode. And keep the same VID

as LAN side.

- [BugFix]
    1. [183] DUT EthWAN does not get IP after reboot (under VLAN condition)
    2. [184] WLAN MAC Restrict Mode cannot remove the "Deny" item.
    3. [187] GUI no response under specific condition
    4. [188] GUI does not automatically logout after inactive timer when applying setting
    5. [189] PPPoE Connect on demand timeout does not work
    6. [190] Typo of QoS Service
    7. [191] Perform UDP port scan test on router's public WAN IP address fail
        - `520    UDP Routing Information Protocol (RIP)  Official`
          `67     UDP Bootstrap Protocol (BOOTP) Server;`
          `68     UDP Bootstrap Protocol (BOOTP) Client;`
          `500 TCP UDP Internet Security Association and Key Management`
`Protocol (ISAKMP)   Official`
        - `keep port 67/68/520, only close port 500`
    8. [192] Port forwarding rule still can work after disable Port forwarding.
        - Not a bug. It is because session not timeout
    9. [193] The warning message will pop up again when setting error configure in remote manager page.
    10. [194] In Ethernet mode,Snmpv2/Snmpv3 will show error message.
        - Can't duplicate this issue

Modifications in V2.00(AAFP.3)b1

- [Feature]
    1. [19] Formatting on Time Setting page
    2. [22] ManufacturerOUI needs to be constant across all units
    3. [24] Hide Tx Power adjustment page as hidden page with password control
    4. [26] APP agent
    5. [31] WiFi button disable function (default disable this function in romfile)
    6. [34] HTTP redirect / diagnostics
    7. [35] Landing Page(default disable this function in romfile)
    8. [39] ManufacturerOUI needs to be constant across all units
- [BugFix]
    1. [3] System Log can't export via "https" by "IE8" browser.
    2. [4] Invoke "GetParameterValues" of "InternetGatewayDevice." doesn't work.(tool problem)

3. [5] There are no "WiFiWMM" Profile and "WiFiWPS" Profile for "InternetGatewayDevice:1".

4. [6] TR-069 connects to ACS server via "HTTPS" fail.

5. [7] Incorrect display of "Wireless LAN" traffic status.

6. [8] Incorrect display of "Ethernet LAN" traffic status.

7. [10] [TR-069] DUT CWMP can't connect with ACS by "https"

8. [12] [TR-069] unable download FW via https server

9. [13] No warning message to let User know the firmware is incorrect.

10. [14] HT Mostar - ACS problem(Customerziation requirement)

11. [25] QoS game list problem

12. [28] Firewall / Parental Control Schedule

13. [41] #140201605 PPPoA should support MTU 1500

14. [43] L1/L2 bug fix in (AAFP.1)b3 FW

◆ Know issue: #125 IP Alias can't work when WAN is disconnected

Modifications in V2.00(AAFP.2)C0

3. Based on V2.00(AAFP.2)b1 create V2.00(AAFP.2)C0
   - Change firmware ID from V2.00(AAFP.2)b1 to V2.00(AAFP.2)

Modifications in V2.00(AAFP.2)b1

- [BugFix]
  1. Wizard can not work when first login
  2. After reboot, tr069 connect request can't work.

Modifications in V2.00(AAFP.1)

1. Based on V2.00(AAFP.1)b4 create V2.00(AAFP.1)
   - Change firmware ID from V2.00(AAFP.1)b4 to V2.00(AAFP.1)

Modifications in V2.00(AAFP.1)b4

- [BugFix]
  1. Web redirect occur when Internet is available while "IP Alias" is enable

Modifications in V2.00(AAFP.1)b3

- [BugFix]

    1. [Sweden & Finland] VC auto-hunt detect correct PVC for a long time issue
    2. #3 There is no "Summary" section in "System Info" webpage
    3. #4 System Log can't export via "https" by "IE8" browser
    4. #43 Incorrect display of "Wireless LAN" traffic status
    5. #44 Incorrect display of "Ethernet LAN" traffic status
    6. #118 DUT Eth WAN cannot get DHCPv6 IP after a successful connection
    7. #125 IP Alias can't worka when WAN is disconnected
    8. #126 IPv6 Static route does not work on Eth WAN mode
    9. #127 RADVD "Delegate M/O flag from WAN" behavior is not correct under Eth WAN mode
    10. #128 DUT EthWAN mode always send DHCP discover twice after reboot
    11. #129 Parental Control "Internet Access Schedule" does not block IPv6 internet access
    12. #136 Web redirect behavior is incorrect by specific condition
    13. #137 3G status is not displayed correctly in Connection Status (WAH1000)
    14. #148 Modify Broadband->More Connection MTU size other than 1500, but GUI still shows 1500
    15. #149 Cannot connect to ACS when first PVC is down
    16. #154 The Broadband page field show error symbol
    17. #159 DUT should pop-up warning message under 802.11n mode with WEP and TKIP encryption condition
    18. #161 The loading process of Network Map to system information takes long time

Modifications in V2.00(AAFP.1)b2

- [BugFix]

    1. Move RF TX power settings (only EU generic) to a hidden page with password
    2. #114 Daylight saving is not allowed to enter smaller "Start Date" than "End Date"
    3. #115 Incorrect MTU warning message in Bridge mode
    4. #119 NAT should be always set to active in 3G Backup
    5. #120 PPPoE field in More connections does not display well in IE11
    6. #121 Should not allow 255.255.255.255 in IP Alias subnet mask
    7. #122 QoS game list "World of Warcraft Launcher and Game Client" some ports do

not work

8. #123 PVC0 DMZ will unworkable after configure PVC1 DMZ

9. #124 Port forwarding cannot to specify TCP/UDP port range

10. #84 QoS classifier > Service are not work

11. #131 Firewall Rule WAN to LAN doesn't work under EtherWAN

12. #132 Firewall Rule LAN to WAN Destination Interface "EtherWAN" does not work

13. "#133 [TR-069] Set to reset PPP connection of ""InternetGatewayDevice.WANDevice.{i}.WANConnectionDevice.{i}.WANPPPPConnection.{i}.Reset"" does not work"

14. #134 [TR-069] Value of "InternetGatewayDevice.DeviceInfo.Description" description is incorrect

15. #140 No matter what Encapsulation Type will base on previous setting in Wizard page

16. #142 In Wizard page, Wireless setup composition will not correct

17. Cannot login to router randomly after successfully connect to Wi-Fi

Modifications in V2.00(AAFP.1)b1

● [BugFix]

1. [UK] The reset button action is not following standard ZyXEL and need to be changed

2. [TR] In default mode WPS function is ''disabled'' for these products. But it must be ''enabled'

3. "[UK] Setting account passwords in the config file doesn't seem to be working, unless I am misunderstanding how it works"

4. [UK] rom-d upload issue

5. [UK] WAN Password 16 characters issue

6. [UK] WLAN MAC filtering TR-069 parameter type error

7. #10 The "SSID" will be changed while clicking Wireless Channel Selection "Scan" button

8. #29 DUT can't establish PPPoE session when MTU is configured to "100"

9. #32 DUT will save the configuration while WebGUI reached "Idle Timeout"

10. "#37 SetParameterValues ""InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.DNSServers"" doesn't work"

11. #38 "InternetGatewayDevice.LANDevice.1.WLANConfiguration." returns wrong

information

12. #48 LAN RA "Router Lifetime" value is not correctly sent

13. #51 [TR-069] Need to remove "WEPKey.2.", "WEPKey.3." and "WEPKey.4."

14. #52 [TR-069] Need to remove "DHCPCondServing" and "DHCPOption" profiles

15. #53 [TR-069] Need to remove "NTPServer3" and "NTPServer4"

16. #55 [TR-069] Incorrect display of object "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1."

17. #60 Wizard can manually configure blank PPPoE username/password

18. #61 Enable ALG, LAN client can't register to SIP server

19. #67 Daylight saving does not show the correct time at the first apply

20. #68 Daylight saving is not allowed to enter smaller "Start Date" than "End Date"

21. #69 The More AP active icon remains active when they are disabled by WIFI scheduling

22. #75 E-mail notification show "SSID2" in the mail when the wireless guest visit

23. #91 DUT LAN DHCP server should be "Disable" when end-user setup WAN PVC0 as bridge

24. #92 Firewall MAC Filter can't block LAN interface

25. #100 Can't recover PPPoE session after PPPoE server drops PADR from DUT

26. "#105 When ENET ENCAP from only IPv4 static IP address change to only IPv6 static IP address will occurring WAN interface crash"

27. #110 DUT can't display IPv6 WAN information in "System Info" webpage with "Ethernet WAN" connection

28. #111 Enable ALG, LAN client can't register to SIP server

29. #116 The GUI on WiFi WEP security does not have a description on how to entering the HEX value

30. "#155 The Wireless ""Group Key Update Timer"" could enter over 4 digits in ""More AP"" webpage, it is inconsistent with General webpage"

31. #157 Multicast doesn't work under Ethernet WAN mode

32. #158 Dynamic DNS doesn't work under Ethernet WAN mode

33. #160 QoS doesn't work under Ethernet WAN mode

34. #161 User can't surf Internet when configure DUT WAN as "static IP address + static DNS server address"

35. #164 Incorrect display of "System Info" under "Ethernet WAN" mode

36. #165 Incorrect display of Wireless Scheduling Start/End Time

37. #166 Incorrect display of UPnP Internet link speed under "Ethernet WAN" mode

38. Traffic will be blocked after reboot when device is configured as bridge mode

39. Bridge mode via Multiplex: VC-Mux fail
40. MAC filter issues
    A. MAC filter (Security -> Filter)
    B. Network Setting -> Wireless -> MAC Authentication
    C. Network Setting -> Wireless -> WDS
    D. Network Setting -> Home Networking -> Static DHCP
    E. Network Setting -> QoS -> Class Setup
    F. Security -> Firewall -> Rules
41. Cannot click Apply button in Gamelist page
42. #95 [TR-069] ACS server send Unknow RPC methods to DUT, but DUT doesn't return Fault code 9000
43. #88 DUT can't manually modify NAT port mapping rules via UPnP before press "Apply"
44. #78 UPnP information doesn't display on "Windows XP"

Modifications in V2.00(AAFP.0)C2

2. Based on V2.00(AAFP.0)C1 create V2.00(AAFP.0)C2
   - Change firmware ID from V2.00(AAFP.0)C1 to V2.00(AAFP.0)C2

Modifications in V2.00(AAFP.0)C1

1. Based on V2.00(AAFP.0)C0 create V2.00(AAFP.0)C1
   - Change firmware ID from V2.00(AAFP.0)C0 to V2.00(AAFP.0)C1
2. Rebuild bootbase
   - Change bootbase version from V2.01 to V2.02

Modifications in V2.00(AAFP.0)C0

1. Based on V2.00(AAFP.0)b4 create V2.00(AAFP.0)C0
   - Change firmware ID from V2.00(AAFP.0)b4 to V2.00(AAFP.0)C0

Modifications in V2.00(AAFP.0)b4

1. Based on V2.00(AAFP.0)b3 create V2.00(AAFP.0)b4
   - Change firmware ID from V2.00(AAFP.0)b3 to V2.00(AAFP.0)b4

Modifications in V2.00(AAFP.0)b3

[Bug Fixed]

1. [93][Remote MGMT] Remote MGMT unworkable via 3G backup.
2. [94][Wizard] Wizard Auto pop feature fail
3. [95][Multicast] DUT can't get WAN IPv4 address after change Multicast mode
4. [97][WAN] No PPPoE Passthrough option in ENET ENCAP
5. [98][Wireless] External/Home Guest AP clients can access DUT
6. [99][Wireless] Wireless Advanced GUI is displayed incorrectly after configuring to 802.11b+g
7. [101][Port Forwarding] NAT Port Forwarding is not working under PPPoE connection
8. [103][USB] User recoonect to USB storage device not apply new account setting if User had connected to USB storage device before
9. [104][USB] USB storage drive crash during the stress test
10. [105][IPSEC Pass Through] Cannot establish VPN IPSec/L2TP pass-through via WLAN client
11. [107][UPnP] Windows XP UPnP can't display Speed Rate under EtherWAN mode
12. [108][Port Forwarding] Port Forwarding unworkable under 3G backup

Modifications in V2.00(AAFP.0)b2

[Feature]

1. support 3G dongle WWAN PACKAGE architecture
    detail feature
    - flash partition of WWAN package
    - upload package via web GUI with Encryption (3DES)

[Bug Fixed]

1. [1][WebGUI] Incorrect Device icon displayed in "Connection Status" and "Virtual Device".
2. [2][WAN] Should not provide any RIP/RIP2 options for PPP (PPPoE/PPPoA) WAN type.
3. [5][Wizard] Unable to set IPoA connection via wizard.
4. [6][WebGUI] Incorrect wording display of Muti-WAN in System Info.
5. [7][WebGUI] Multi-WAN display in drop-down menu in Connection Status should match with "Node Name" in "Broadband > More Connections".

P.S. Multi-WAN display in Connection Status is display "WAN PVC0"~"WAN PVC7" and in "Broadband > More Connections" is display WAN_PVC0.

6. [59][WAN] Configure PPPoA user name/Password after DSL up 10 min, unable establish WAN connection.

7. [63][IPSEC Pass Through] IPSEC pass through with multiple LAN clients using same VPN server, but only one LAN client received return IPSEC/ESP tunnel mode packets from VPN server.

8. [67][WAN]Can't recover PPPoE session after PPPoE server drops PADR from DUT

9. [68][Firewall] WAN host can send TCP packet to LAN without Port Forwarding when Firewall level is Low.

10. [70][WAN]No USB storage Device information in System Info and File Sharing page.

11. [71][WebGUI] More connection display should not show WAN PVC2~8 under Ethernet WAN.

12. [72][WAN]Unable configure More Connection under Ethernet WAN

13. [76][Port Forwarding]NAT service of E-mail(POP3) can't work well.

14. [77][Port Forwarding] NAT Port Forwarding rules can add duplicate rules.

15. [78][DMZ] DMZ only work at first PVC.

16. [79][LED]Connected to internet via 3G dongle, internet LED doesn't light.

17. [80][WebGUI]Unworkable button in Interface Status when 3G warning.

18. [81][WAN]All about NAT function unworkable under 3G WAN connection.

19. [82] [WAN]Some of USB 3G dongle listed in PS can not work

20. [83][Multicast]IGMPv3 doesn't work under Ethernet WAN.

21. [85][WAN]6RD/6to4 prefix doesn't change after IPv4 WAN IP have changed.

22. [86][Firewall]DoS attack undrop packet to LAN host.

23. [88][Wireless]DUT will send E-mail notification whenever the clients try to associate with Guest AP / Other Aps.

24. [90][Time Setting] NTP server 2 doesn't active when NTP server 1 is a invalid IP address or URL.

25. [91][Wizard] VC hunt will affect user configured DUT by Quick start.

26. [92][WAN] PPPoE Passthrough doesn't work under Ethernet WAN.

Modifications in V2.00(AAFP.0)b1_I0

[Feature]

1. Support SAMBA file sharing
2. Support 3G Dongle

- Some function can't work under 3G mode(because of wrong interface)
  - Fix in next version
3. Firewall WAN-Router operation
   - If Remote MGMT = LAN only
     - Ignore WAN-Router ACL, WAN access always denied
   - If Remote MGMT = WAN & LAN
     - Follow WAN-Router ACL and default action to define deny or allow
4. Add guest AP

[Bug Fixed]
1. [17][UPnP] Win7 UPnP display wrong "serial number" information.
2. [18][WebGUI] The GUI on WiFi WEP security does not have a description on how to entering the HEX value.
3. [49][WLAN] Incorrect behavior on "WiFi Scheduling".
   P.S. Because of some patch. WIFI Scheduling will wake up after 1 min when times up.
4. [79][WebGUI] The Wireless "Group Key Update Timer" could enter over 4 digits in "More AP" webpage, it is inconsistent with General webpage.
5. [93][Multicast] Multicast doesn't work under Ethernet WAN mode.
6. [105][WAN] User can't surf Internet when configure DUT WAN as "static IP address + static DNS server address".
7. [106][Wizard] There is no "VLAN ID" setting in Wizard under Ethernet WAN mode.
8. [108][WebGUI] Incorrect display of "System Info" under "Ethernet WAN" mode.
9. [109][WebGUI] Incorrect display of Wireless Scheduling Start/End Time.
10. [110][UPnP] Incorrect display of UPnP Internet link speed under "Ethernet WAN" mode.
    P.S. The link speed is dynamic base on Internet. But it was always 100.0Mbps when I test. Please help to check it.

Default Settings in V2.00(AAFP.3)C0

- USERNAME="ChangeMe"

Default Settings in V2.00(AAFP.3)b1

- Modify default setting for "Default Setting List_for old model generic_20140219.xlsm"

Default Settings in V2.00(AAFP.1)b2

- ZYXEL_WIFI_OUTPUTPOWER_hidden="Yes"

Default Settings in V2.00(AAFP.0)C2

- Country Code : FC

Default Settings in V2.00(AAFP.0)b4

- IPv4 only

Default Settings in V2.00(AAFP.0)b1_I0

1. Modify default setting for I0
- Modified VPI/VCI:0/38
- Encapsulation: PPPoA VC-Mux
- Enable IGMP proxy
- Modified MTU 1500
- IPv4 only
- Modified Annex type A to Annex type mixed (ANNEX A/I/J/L/M).
- Enable auto hunt(0/101;0/102;1/50;8/35)
- Disable IGMP Snooping
- Modified Wireless Channel select: Auto
- Modified CountryCode:F9
- Enable WPS, Status = configured
- Time Zone: GMT
- Enable daylight saving time
  - start: last Sunday at March at 1:00
  - end: last Sunday at October at 2:00
- Modified TR-069 setting: periodInterval=86400 ; password=N/A
- Maintenance → TR-069 Client page should be hidden from admin login
- Enable ICMP from Wan in Remote MGMT