

VMG8623-T50B
EMG3525-T50B
VMG3625-T50B
EMG5523-T50B

Firmware Release Note

V5.50(ABPM.7.1)C0

Date: Jun. 29, 2022
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Revision History

Date	Release	Author	Description
2019/01/04	1.0	Wilbur Lu	V5.50(ABPM.0)b1
2019/02/18	1.1	Wilbur Lu	V5.50(ABPM.0)b2
2019/02/18	1.2	Wilbur Lu	V5.50(ABPM.0)b2_D0
2019/03/15	1.3	Wilbur Lu	V5.50(ABPM.0)b3
2019/03/26	1.4	Wilbur Lu	V5.50(ABPM.0)b4
2019/04/23	1.5	Wilbur Lu	V5.50(ABPM.0)b5
2019/04/23	1.6	Wilbur Lu	V5.50(ABPM.0)b5_D0
2019/05/23	1.7	Bonnie Zhao	V5.50(ABPM.0)b6
2019/05/28	1.8	Bonnie Zhao	V5.50(ABPM.0)b6_D0
2019/06/03	1.9	Bonnie Zhao	V5.50(ABPM.0)b7
2019/06/04	2.0	Bonnie Zhao	V5.50(ABPM.0)b7_D0
2019/06/13	2.1	Bonnie Zhao	V5.50(ABPM.0)C0
2019/06/14	2.2	Bonnie Zhao	V5.50(ABPM.0)D0
2019/08/06	2.3	Eric Tsai	V5.50(ABPM.2)b1
2019/10/04	2.4	Eric Tsai	V5.50(ABPM.2)b2
2019/11/21	2.5	Eric Tsai	V5.50(ABPM.2)b3
2019/12/20	2.6	Eric Tsai	V5.50(ABPM.2)b4
2020/01/17	2.7	Eric Tsai	V5.50(ABPM.2)b5
2020/02/12	2.8	Eric Tsai	V5.50(ABPM.2)C0
2020/03/20	2.9	Wilbur Lu	V5.50(ABPM.3)b1_F0
2020/04/14	3.0	Wilbur Lu	V5.50(ABPM.3)b2_F0
2020/06/05	3.1	Eric Tsai	V5.50(ABPM.4)b1
2020/08/28	3.2	Eric Tsai	V5.50(ABPM.4)b2
2020/10/08	3.3	Eric Tsai	V5.50(ABPM.4)b3
2020/10/28	3.4	Eric Tsai	V5.50(ABPM.4)b4
2020/12/03	3.5	Ralph Chien	V5.50(ABPM.4)b5
2020/12/16	3.6	Wilbur Lu	V5.50(ABPM.4)C0
2021/01/26	3.7	Ralph Chien	V5.50(ABPM.5)b1
2021/01/26	3.8	Ralph Chien	V5.50(ABPM.5)C0
2021/02/26	3.9	Ralph Chien	V5.50(ABPM.6)b1
2021/04/23	4.0	Ralph Chien	V5.50(ABPM.6)b2
2021/06/11	4.1	Ralph Chien	V5.50(ABPM.6)b3

2021/08/02	4.2	Ralph Chien	V5.50(ABPM.6)b4
2021/08/04	4.3	Ralph Chien	V5.50(ABPM.6)b5
2021/09/17	4.4	Ralph Chien	V5.50(ABPM.6)b6
2021/10/08	4.5	Ralph Chien	V5.50(ABPM.6)b7
2021/11/05	4.6	Ralph Chien	V5.50(ABPM.6)b8
2021/11/19	4.7	Ralph Chien	V5.50(ABPM.6)b9
2021/11/19	4.8	Ralph Chien	V5.50(ABPM.6)C0
2021/10/15	4.9	Luna Huang	V5.50(ABPM.7)b1
2021/12/29	5.0	Luna Huang	V5.50(ABPM.7)b2
2022/03/10	5.1	Luna Huang	V5.50(ABPM.7)b3
2022/04/26	5.2	Luna Huang	V5.50(ABPM.7)b4
2022/06/01	5.3	Luna Huang	V5.50(ABPM.7)b5
2022/06/15	5.4	Luna Huang	V5.50(ABPM.7)C0
2022/06/29	5.5	Luna Huang	V5.50(ABPM.7.1)b1
2022/06/29	5.6	Luna Huang	V5.50(ABPM.7.1)C0

Zyxel VMG8623-T50B Generic

Zyxel EMG3525-T50B Generic

Zyxel VMG3625-T50B Generic

Zyxel EMG5523-T50B Generic

V5.50(ABPM.7.1)C0 Release Note

Date: Jun. 29, 2022

Supported Platforms:

Zyxel VMG8623-T50B

Zyxel EMG3525-T50B (VMG8623-T50B remove VD WAN)

Zyxel VMG3625-T50B (VMG8623-T50B remove VoIP)

Zyxel EMG5523-T50B (VMG8623-T50B remove VD WAN)

Versions:

Bootbase Version: V1.48 | 10/15/2021 15:46:22

Firmware version : V5.50(ABPM.7.1)C0

Kernel version: 3.18.21

DSL driver version: V5.12.26.0_220218

2.4G WLAN code version: 5.0.4.0

5G WLAN code version : 5.0.4.0

3G dongle WWAN package version: 1.24

MProMesh APP:

iOS: V2.2.2

Android: 2.1.0

Notes:

Default Settings in Firmware

- Refer to the *.rom in the fw release package.
- Please use the website <http://jsoneditoronline.org/> to open the *.rom.

Modifications in V5.50(ABPM.7.1)C0

Base on V5.50(ABPM.7.1)b1 to release V5.50(ABPM.7.1)C0

Modifications in V5.50(ABPM.7.1)b1

Base on V5.50(ABPM.7)C0 to release V5.50(ABPM.7.1)b1

[FEATURE ENHANCEMENT]

[BUG FIX]

1. [OPAL Generic] GUI Create more than one interface group, the 2nd or latest group name will show empty.

Modifications in V5.50(ABPM.7)C0

Base on V5.50(ABPM.7)b5 to release V5.50(ABPM.7)C0

Modifications in V5.50(ABPM.7)b5

Base on V5.50(ABPM.7)b4 to release V5.50(ABPM.7)b5

[FEATURE ENHANCEMENT]

1. [OPAL Generic] GUI translation_ES_NL

[BUG FIX]

2. [Stress] After TR-069 stress testing - Reboot + change PPP username/password, DUT did not work properly.
3. [WAN] CPE set as Multi-WAN (PPPoE: VLAN 201 (Default GW) + IPoE: VLAN 301) and then CPE VLAN 201 WAN will get VLAN 301 PPPoE IP address after re-connect (Disconnect & Connect button).
4. [Security] CPE happen "Invalid memory segment access" after Create Certificate Request

Modifications in V5.50(ABPM.7)b4

Base on V5.50(ABPM.7)b3 to release V5.50(ABPM.7)b4

[FEATURE ENHANCEMENT]

[BUG FIX]

1. [Vulnerability] Infinite loop in BN_mod_sqrt() of OpenSSL when parsing certificates
2. [TR143] Perform upload/download diagnostic, ACS doesn't indicating the Event code "8 DIAGNOSTICS COMPLETE" in the Inform message.

3. [WAN] Ethernet model default status, wan cannot get IPv6 address.
4. [WAN] Ethernet model IPoE change to PPPoE, broadband page will show WWAN interface
5. [WWAN] Ethernet model WWAN cannot work.
6. [Route] Ethernet model RIP page will show WWAN interface.
7. [Vulnerability][Generic] cleartext storage of sensitive information vulnerability
8. [WLAN] After bootup, DUT internet LED will green on when operation mode is Repeater mode.
9. [WLAN] Disable onessid function, enable 5G guest1 SSID via general page or inside card page, the outside card page still display off.
10. [WLAN] 5G Guest SSID switch button doesn't link with 2.4G Guest SSID behavior when onessid is enable.
11. [IGMP] WLAN can not play VLC channel.
12. [LAN] The CPE LAN side RA packets flags are always show M bit = 0 , O bit = 1 even user change to another IPv6 address assign method
13. [eITS 220201015] NeighboringWiFiDiagnostics is not working correctly.
14. [eITS 220100586][WAN] CurrentWAN with VLAN tag cannot work.
15. [WAN] Link VDSL is pppoe mode can get IP address then to change to link ADSL, internet LED will not green blinking.

Modifications in V5.50(ABPM.7)b3

Base on V5.50(ABPM.7)b2 to release V5.50(ABPM.7)b3

[FEATURE ENHANCEMENT]

1. [OPAL Generic] Italian GUI translation
2. [OPAL Generic] GUI translation_DE_RU
3. [OPAL Generic] French GUI translation
4. [OPAL Generic] Portuguese GUI translation
5. [eITS #220300139] support for lan dhcp option 43 suboptions using cwnmp to forward acs url
6. [eITS #220100965] Support LAN DHCP option 43 suboptions to forward acs url
7. [eITS #220200272] MPro Mesh Guest SSID does not enable on Repeater devices.
8. [OPAL Generic] Disable the FTP function
9. [OPAL Generic] Change WPS button trigger condition

[BUG FIX]

1. [eITS #220201027] After FW-Update MTU is set to 0 and all services no longer work
2. [GUI] In Wireless page, the GUI block special character behavior are not consistency between SSID & Password field
3. [eITS #220100235] VMG3625-T50B-5.50(ABPM.5)F1-DHCP Relay
4. [eITS #220100868][System] Data collected and sent from F-Secure demons when function disabled
5. [WLAN] Wireless 5G guest1 enable button should be grayed out inside card page setting
6. [Parental Control] When user add more than 12 parental control rules, GUI warning message should modify.
7. [System] Uncheck Random Password but without set the Password, DUT should dump warning message and reject to set
8. [WLAN] Wireless 5G guest1 can not enable from card page
9. [MPro Mesh_Agent for Android] The APP after stay on Home page over 30 minutes, it will occurs crash
10. [System] Suggest the first character for language change to capital letter.
11. [eITS #211201635][VPN] pptp passthrough speed limit
12. [MPro Mesh] The SSID of Guest cannot be set additional characters "~!@#\$%^&", It will pop up warning message.
13. [eITS #210601617] EMG3525-T50B_Parental control is disable after the device reboot

Modifications in V5.50(ABPM.7)b2

Base on V5.50(ABPM.7)b1 to release V5.50(ABPM.7)b2

[FEATURE ENHANCEMENT]

1. [OPAL Generic][TR-069] WiFi 802.11 mode parameter change.
2. [OPAL] support new FW version format for spin release.
3. [eITS 210900906] Disable DHCP server if all of the binding WAN are bridge.
4. [OPAL Generic] Rom-covert behavior for Mesh FW.
5. Upgrade OPENSSL to 1.1.1b.
6. [eITS 210401010][OPAL Generic] enabling guest-network via gui.
7. [eITS 211001522][VoIP] Call Hold does not work.

8. [eITS 211001230] Automatically enable TR-69 when ACS URL received via DHCP Option43.
9. [eITS 210500325] L2TP logging.
10. [eITS 210500323] L2TP client should start automatically after CPE boots and maintain the connection.

[BUG FIX]

1. [eITS 211200990] Disabling EasyMesh will enables OneSSID.
2. [MESH] Upgrade from non-support Mesh FW to Mesh supported FW, behavior is wrong.
3. [TR-069] The Name of Trusted CA is not complete if CPE download CA via TR-069.
4. [TR-069] The default value of "InternetGatewayDevice.X_ZYXEL_LifeMoteAgent.State" is "RUNNING"
5. [GUI] The information of the new Bridge WAN show incorrectly in system info page.
6. [GUI] DUT blocks port forwarding rules with different originating IP
7. [L2TP] Modify the L2TP rule once, will disconnect from the L2TP server, but if modified 3~4 times. CPE will crash
8. [eITS 211100068] Wrong sequence of vlan auto hunt
9. [eITS 211100551] Pause Internet Feature in MPro
10. [MPro Mesh_Android] For Generic FW, all agent signal LED should remove Amber signal at APP Home page agent
11. [MPro Mesh_Agent] After disable all extender, its will stay in Home page over 3 minutes online status then change to No connection status
12. [MPro Mesh_Agent] When disable end devices the Pause Internet does not work
13. [TR-143] VDSL 35B TR143 download rate is over than link rate.
14. [MPro Mesh] AP roaming, "SteeringStatus" stays at "IN_STEERING", controller will not manage this mobile phone.
15. [MPro Mesh] Band Steering, "SteeringStatus" stays at "IN_STEERING".
16. [MPro Mesh] Press Controller SW WPS PBC & Extender SW Onboarding button to Add Device Extender-Repeater to Controller successfully but Extender does not pop up "WPS pairing completes" message

17. [Stress] ZyPark-WLAN Stress test over 72 hours occurs memory leakage and has lots of same process.
18. [GUI] Wireless 5G guest1 can not enable from card page
19. [WAN] Enable DHCP option 120 of IPoE WAN, but there' no option120 in DHCP packets.
20. [WLAN] Default 2.4G wireless 802.11 mode display null value.
21. [WAN] According to the capability of the USB dongle or the current link status, the WWAN icon can display "4G".
22. [WAN] Default DSL modulation is wrong
23. [MPro Mesh] Plug-off Ethernet cable between Controller & AP_Agent then AP_Agent will change to RP_Agent, but it still display in Wired category on Controller Connectivity page.
24. [eITS 211200010] Apple sync not working

Modifications in V5.50(ABPM.7)b1

Base on V5.50(ABPM.6)b7 to release V5.50(ABPM.7)b1

[FEATURE ENHANCEMENT]

1. [OPAL Generic] Media Server GUI Change
2. [eits #210200785] PCP (Port Control Protocol) support
3. [eits #200301509] Increase Parental Control Profile entries
4. [eits #210401527] Configure available cards in web-gui
5. [eits #210200123] Feature FDPS at our VDSL2 devices should be enabled by default

[BUG FIX]

1. [eits #210601879] ACS Server communication not works with specific configuration
2. [eits #210700890] Static DHCP IP address bug
3. [eits #210601604] Static DHCP IP address bug
4. [eits #210601861] router lifetime invalidated for a short while on DHCPv6-renew
5. [eits #210600461] disable or optimize client check
6. [eits #210801029] DNSv6 of WAN cannot get IP
7. [eits #210800919] cannot set static DNSv6 IP via TR098
8. [eits #210601930] DS-Lite setting missing Automatically configured by DHCP

9. [eits #210900169] Multicast messages not sent to STB
10. [eits #210601911] Use under Language correct country names
11. [eits #210700601] System Info German language
Schnittstellenbetriebszeit
12. [eits #210400299] Support 4G Compatibility of Dongles
DLINK-DWM-222 A2
13. [eits #210901346] The TR69 X_ZYXEL_Wireless_Mode for 5Ghz Band AX
Mixed mode acceptable value is not consistent
14. [GUI] WiFi password cannot input spaces on Card page

Modifications in V5.50(ABPM.6)C0

Base on V5.50(ABPM.6)b9 to release V5.50(ABPM.6)C0

Modifications in V5.50(ABPM.6)b9

Base on V5.50(ABPM.6)b8 to release V5.50(ABPM.6)b9

[BUG FIX]

1. Warning when deactivating EasyMesh
- 2.

Modifications in V5.50(ABPM.6)b8

Base on V5.50(ABPM.6)b7 to release V5.50(ABPM.6)b8

[FEATURE ENHANCEMENT]

6. [eits #210801059] Warning when deactivating EasyMesh

[BUG FIX]

1. [MPro Mesh] Sometimes Extender_RP cannot connect back
Controller backhaul after Reboot Controller or Controller do fw
upgrade or Controller do backup then restore config setting. (Rate:
3/10)
2. [MPro Mesh] After disable/ enable Controller 5G, sometimes one or
two extender_RP cannot connect back Controller WiFi_Backhaul.
(Rate: 2/5)
3. [MPro Mesh] Sometimes Extender_RP cannot connect back
Controller backhaul after Modify wifi setting. (Rate: 1/5)
4. [MPro Mesh_Agent] The guest wifi of Extender transmit beacon when

modify main wifi setting and the Guest wifi is disable.

Modifications in V5.50(ABPM.6)b7

Base on V5.50(ABPM.6)b6 to release V5.50(ABPM.6)b7

[FEATURE ENHANCEMENT]

1. [eits #210400299] 4G Compatibility of Dongles for DLINK DWM-222 A2

[BUG FIX]

1. [MPro Mesh] Set the last character of SSID to be blank, wifi beacon will send duplicate SSID
2. [MPro Mesh] 2.4G/5G bouncing occurred in Band Steering.
3. [MPro Mesh] The guest wifi of Extender transmit beacon when Extender onboarding to Controller successful and the Guest wifi is disable.
4. [MPro Mesh] The SSID of Main and Guest cannot be set additional characters "~!@#\$\$%^&", It will pop up warning message.
5. [MPro Mesh] Add extender successful then Extender H/W WPS button again cause to Extender disconnect and cannot connect back to Controller
6. [MPro Mesh_Agent] When disable Extender_AP agent over 5 minutes it still show in APP via online status

Modifications in V5.50(ABPM.6)b6

Base on V5.50(ABPM.6)b5 to release V5.50(ABPM.6)b6

[BUG FIX]

1. [MPro Mesh] There is no steering record during the band steering test
2. [MPro Mesh] After Extender_RP lose backhaul connection, Controller still display this extender in station list in zysctl -a.
3. [MPro Mesh] Plug-off Ethernet cable between Controller & AP_Agent then AP_Agent will change to RP_Agent, but it still display in Wired category on Controller Connectivity page.
4. [MPro Mesh_Agent] When disable all extender/ clients the Status did not show "Disconnect", all devices will disappear by directly within 2 minutes
5. [MPro Mesh] Upgrade fw from non_mesh fw to support mesh fw w/o reset default, it's onboarding failed.

6. [MPro Mesh] Restore Non_Mesh fw backup config file to support Mesh fw controller, it's onboarding failed.
7. [MPro Mesh] Sometimes Extender_RP cannot connect back Controller backhaul after Reboot Controller or Controller do fw upgrade or Controller do backup then restore config setting. (Rate: 3/10)
8. [MPro Mesh] After disable/ enable Controller 5G, sometimes one or two extender_RP cannot connect back Controller WiFi_Backhaul. (Rate: 2/5)
9. [MPro Mesh] Sometimes Extender_RP pwr LED will keep blinking when it lose backhaul connection. (2/10)
10. [MPro Mesh] Candela stress test, wifi clients only 24 clients (2.4G*12 and 5G*12) to associated in withing 3 minutes
11. [MPro Mesh_Agent] During do add extender process, it sometimes meet APP redirect to "No connection" page (1/10)
12. [MPro Mesh_Agent] RP_Agent connection type is show wrong when modify SSID and Password

Modifications in V5.50(ABPM.6)b5

Base on V5.50(ABPM.6)b4 to release V5.50(ABPM.6)b5

[BUG FIX]

1. Fix Mesh connection problem.
2. [MPro Mesh] Onboarding 2nd RP_Agent, the 2nd RP_Agent will disappear/appear repeatedly on mesh topology and its pwr led keep green blinking.
3. [MPro Mesh] 2.4G/5G bouncing occurred in Band Steering.
4. [MPro Mesh] AP roaming, Controller steer wifi client to extender 2.4G

Modifications in V5.50(ABPM.6)b4

Base on V5.50(ABPM.6)b3 to release V5.50(ABPM.6)b4

[BUG FIX]

1. [eits #210700395] no WAN-link with 5C1 and 4wire cable
2. [eits #210601494] Random SIP accounts register failure
3. [eits #210401093] Internet LED after succesfull Mesh pair does not light

4. [MPro Mesh] No defined WPS LED on RP mode.
5. [MPro Mesh] No defined uplink led behavior on RP mode.
6. [WLAN] Enable Wi-Fi key reminder, LAN PC open a http/https website but CPE will not redirect to landing page
7. [GUI] If WPS is Enabled, UPnP should automatically be turned on.
8. [Stress] ACS stress testing download FW & change ACS URL, Console show call trace but FW still upgrade.
9. [Security] Wireless SSID command injection.
10. Both 2.4G and 5G SSID will disappear when wireless is idle

Modifications in V5.50(ABPM.6)b3

Base on V5.50(ABPM.6)b2 to release V5.50(ABPM.6)b3

[FEATURE ENHANCEMENT]

1. [GUI] Multi-language GUI for OPAL generic GW + Extender

[BUG FIX]

1. [eits #210500124] It should be possible to activate/deactivate EasyMesh
2. [eits #210500468] EMG3525-T50B_SSID name 5G does not appear on the network
3. [eits #210500469] EMG3525-T50B_MESH page is disabled, unable to change the settings
4. [eits #210500416] EMG3525-T50B_Parental Control- Unable to select ENABLE button
5. [eits #210500519] VMG3625-T50B - Parental Control Settings not working.
6. [eits #210500523] VMG3625-T50B - Wireless SSIDs and WPS button
7. [eits #210500478] VMG3625-T50B DSL Settings not included
8. [eits #210400274, 210400275] [IOP] customers on 200Mbps FTTH service are only receiving 100Mbps
9. [eits #210501117] IPV6 parameter errors
10. [eits #210500126] Warning when user activates EasyMesh
11. [eits #210500610] EMG3525-T50B - requires confirmation on DNSmasq version
12. [eits #210300577] Quick start Wizard fails to complete when setting up EMG3525 using Wi-Fi (let customer use ABPM6b3 verify first)

13. [eits #210300578] Quick start Wizard fails to complete when setting up EMG3525 using Wi-Fi
14. [eits #210500606] EMG3525-T50B_Wireless disconnect, unable to finish QSW using wireless connection
15. [ACTS] Change admin account user name by ACS server and then reboot, the CPE zhttpd daemon will restart continuously
16. [VMG8623-T50B] [MPro Mesh] The network wifi sync setting with RP / AP mode will be unsuccessful
17. [VMG8623-T50B] [MPro Mesh_Agent] After modify SSID and Password via APP, all extender did not sync with controller
18. [WAN] Kill the PPPoE session on PPPoE server but CPE PPPoE stats still has uptime and DNS IP address.
19. [System] [RomFile] Online Firmware Upgrade functions fail when reboot.
20. [ZyPark Stress] The CPE should not happen kernel panic and call trace within 72 hr at ZyPark (nf_ct_delete_from_lists)
21. [DST] The DST & GUI value should be corresponding
22. [MESH] The VMG8623-T50B series model need to modify parental control GUI & TR-069 SPV mesh function if ECONET MT7615D & MT7915 design limit
23. [MPro Mesh] Sometimes online extender disappear, wifi client "stale=Yes"
24. [MPro Mesh_Agent] Reboot Extender does not work
25. [MPro Mesh] After disable then enable Mesh function via TR-069, the zyMAPSteer daemon will disappear.
26. [MPro Mesh_Agent] After modify SSID and Password via APP, all extender did not sync with controller
27. [MPro Mesh_Agent] Extender_RP will be repeated disappeared in APP Home page
28. [MPro Mesh] The network wifi sync setting with RP / AP mode will be unsuccessful
29. [Vulnerability] DeAgg & DeFrag Attacks

Modifications in V5.50(ABPM.6)b2

Base on V5.50(ABPM.6)b1 to release V5.50(ABPM.6)b2

[BUG FIX]

1. [TR-069] IGD.DeviceInfo.Description for EMG product is not suitable.
2. [NAT] After reboot the DUT, the Address Mapping rule cannot work correctly
3. [eITS #210200621] [GUI] captive portal breaks wan access.
4. [Diagnostic] The diagnostic GUI should not pop-up warning message even user fill in correct FQDN format in TCP/IP address
5. [USB] Can't add share folder for file sharing
6. [MAC Filter] Use Drop-down menu to add MAC Filter rule, MAC Filter function cannot work.
7. [WLAN] WiFi support WPA3 security mode, the default wifi security mode should be WPA3-SAE/WPA2-PSK
8. [Security] L2TP VPN page should not be visible for generic FW by default.
9. [#144126] [System] Language list include "French 、 Deutsch 、 Espanol" .
10. [L2TP] L2TP VPN function should be work fine
11. [WAN] The CPE GUI should not show programming syntax wording when user click Disconnect button via ADSL PPPoA mode
12. [WAN] In PPPoA mode, the value of "WAN Received" and "WAN Sent" in Traffic Status page always display 0.
13. [WAN] The layout of IPoA information is displayed incorrectly in System Info
14. [WAN] When WAN is Bridge mode, the MAC Address should show N/A in System Info.
15. [WAN] VLAN Autohunt function cannot work
16. [LAN] Verify the IPv6 DNS 1/2/3 field should block the duplicate DNS value
17. [WLAN] WLAN 2.4G Guest/More AP Max. Upstream Bandwidth & Max. Downstream Bandwidth did not work well.
18. [WLAN] Beacon and DTIM interval can't save success.
19. [VLAN Group] The VLAN Group page note should not show any GRE wording even VMG8623-T50B series model not support GRE function
20. [LAN] Interface Grouping rule with option 125 is unable to be added.
21. [Security] In login_privilege page should not show account

password.

22. [VoIP] Call block function should hide, it is for sunrise project.
23. [QoS] Can not accept port range 99-100 when add a classification rule.
24. [GUI] The Broadband table information had been shift.

Modifications in V5.50(ABPM.6)b1

Base on V5.50(ABPM.5)C0 to release V5.50(ABPM.6)b1

[FEATURE ENHANCEMENT]

1. [eITS #200102401] Change default date be the creation or the FW release date instead of 1-1-1970.
2. [eITS #200400636] Modify the web GUI display from "Annex M" to "Annex M/Annex J".
3. [eITS #200400612] Support download & import CA from TR69 by using the FileType "6 ZYXEL SSL CA File".
4. [eITS #200602984] Support disable/enable WiFi HW button function via TR-098 and TR-181.
5. [eITS #200602846] Support log for the behavior when WiFi HW button is triggered and WiFi is enabled/disabled after the button is triggered.
6. [eITS #200603672] Add warning message about disabling the Firewall.
7. [eITS #200700034] Support to use MAC address or serial number as ACS password.
8. [eITS #201001163] Support Lifemote agent v1.3.
9. On MAC filter page, show the devices(drop-down list) which are connected to modem.
10. [eITS #201201184] VLAN0 support for customer's network.
11. Change time format 00:00-23:59 in Parental control page.
12. [Generic] Key Feature - L2TP (default disabled)
13. Support Zyxel MPro Mesh.
14. Support Operation mode

[BUG FIX]

1. [eITS #200500100] When send the FAX to peer, sip server will send the second INVITE the same SDP as the 200 OK of the previous

INVITE which make CPE treat as invalid FAX request and cause the FAX fail.

2. [Vulnerability] UPnP protocol can be abused to perform DDoS and/or data exfiltration via SUBSCRIBE capability.
3. [eITS #200603738] Dropbear not running after reboot
4. [GUI] GUI still exist DSL WAN Interface (nas0/nas8) on model EMG3525 Diagnostic 802.1ag and 802.3ah page.
5. [eITS #200800711] [Vulnerability] CVE-2019-11358 vulnerability - update jQuery to "3.5.1".
6. [eITS #201101346] Firmware-download url does not follow routing path
7. [#210100668][Vulnerability] Vulnerabilities in Multiple Zyxel Equipment from Sec consult => issue 1,2,4,5,7,8,9,10
8. [#210100667][Vulnerability] Dnsmasq multiple vulnerabilities (DNSPooq)
9. [Vulnerability][CVE-2020-1971][Openssl]Correctly compare EdiPartyName in GENERAL_NAME_cmp()

Modifications in V5.50(ABPM.5)C0

Base on V5.50(ABPM.5)b1 to release V5.50(ABPM.5)C0 FCS

Modifications in V5.50(ABPM.5)b1

Base on V5.50(ABPM.4)C0 to release V5.50(ABPM.5)b1

[BUG FIX]

1. [#210100697][System] Supervisor password does not work from WAN side after upgrade.

Modifications in V5.50(ABPM.4)C0

1. Base on V5.50(ABPM.4)b5 to release V5.50(ABPM.4)C0 FCS

Modifications in V5.50(ABPM.4)b5

Base on V5.50(ABPM.4)b4 to release V5.50(ABPM.4)b5

[FEATURE ENHANCEMENT]

1. [eits #200102401] Set default date as system uname time.

[BUG FIX]

1. [Vulnerability] Unauthenticated Denial-of-Service effectively

- disabling the device's web-interface.
- 2. [Vulnerability] Arbitrary remote code execution (RCE) on the device through an HTTP request.
- 3. [GUI] Vulnerability issue via Export_Log

Modifications in V5.50(ABPM.4)b4

Base on V5.50(ABPM.4)b3 to release V5.50(ABPM.4)b4

[BUG FIX]

- 1. [137816] [System] atck command can't work on bootloader command line mode
- 2. [137533] [NAT] CPE hang and show "Invalid memory segment access" when add an address mapping rule with interface "Default" then reboot CPE

Modifications in V5.50(ABPM.4)b3

Base on V5.50(ABPM.4)b2 to release V5.50(ABPM.4)b3

[BUG FIX]

- 1. [WAN] EMG3525-T50B should be got WAN IP on the 7th or 8th ETH Interface with VLAN
- 2. [Security] WOL command injection
- 3. [Stability] buffer overflow when upgrade FW

Modifications in V5.50(ABPM.4)b2

Base on V5.50(ABPM.4)b1 to release V5.50(ABPM.4)b2

[FEATURE ENHANCEMENT]

- 1. [#200100672][VMG3625-T20A_WiFi Key Detect Mechanism
- 2. [#190900425]Device.X_ZYXEL_LoginCfg.LogGp.i.Account.i.Remote AccessPrivilege doesn't work
- 3. [#191200328]SSID format with random numbers

[BUG FIX]

- 1. [#200603822]VMG8623-T50B Incoming call fails due to '404 Not Found'
- 2. [#200300288]Laptop That Connect to Modem can not access

Internet

3. [#200201141]official trial of EMG5523 - custstatic IP cannot be saved in default gateway colum
4. [#200603611]EMG3525, 5G connection issue
5. [#200400543]EMG5523-T50B Voice RTCP issue
6. [#200602784]VMG8623-T50B (V550ABPM0C0) - Pure - VoIP configuration
7. [#200400508]EMG5523-T50B Voice codec issue

Modifications in V5.50(ABPM.4)b1

Base on V5.50(ABPM.3)b2_F0 to release V5.50(ABPM.4)b1

[BUG FIX]

1. [#190900425]
'Device.X_ZYXEL_LoginCfg.LogGp.i.Account.i.RemoteAccessPrivilege' doesn't work
2. [#190900457] The bridge client cannot run IGMP server if Con-current WAN use PPPoE + bridge
3. [#200100462] Other modifications for Czech language which are not available in JSON file
4. [#200100533] WAN interface with VLAN ID and default Gateway
5. [#191200311] Config DHCP client option42 on non-default interfaces
6. [#200103035] EMG3525-T50B_Incorrect model number
7. [#200201333] Parental control in Turkish language display incorrect
8. [#200201334] The Default of parental control in card page and advance page are not consistent
9. [#200200810] fixed/hardcoded SSID to be broadcasted out before the wifi driver boot up
10. [#200105375] SIP NAT Problem
11. [#200300675] {Security Vulnerability} - Kr00k with BRCM/Cypress wifi chipset - Zyxel Uk
12. [#200400142] DSL Advanced configuration apply unsuccessful
13. [#200401166] Encapsulation Type - GUI option ADSL over ATM, VDSL over PTM

14. [#200401236] VMG8825, PeriodicInformTime via CLI
15. [#191100506] Option 61 Identifier unique for each device
16. [#200100461] Updated JSON file with modifications for Czech language
17. [#200106890] RFC 7599- Mapping of Address and Pomprt using Translation (MAP-T) and RFC 7597-Mapping of Address and Port with Encapsulation (MAP-E)
18. [#200200772] RFC 7599- Mapping of Address and Pomprt using Translation (MAP-T) and RFC 7597-Mapping of Address and Port with Encapsulation (MAP-E)
19. [#200300357] long boot up time : reduce boot up time
20. [#191200210] OPAL Support
Device.ManagementServer.InformParameter.{i}.
21. [#191200262] OPAL Support user_startup_parameters.sh
22. [#200300859] VMG8825, TR69 watchdog log

Modifications in V5.50(ABPM.3)b2_F0

Base on V5.50(ABPM.3)b2 to release V5.50(ABPM.3)b2_F0

[FEATURE ENHANCEMENT]

[BUG FIX]

1. [#200300288] Laptop That Connect to Modem cannot access Internet

Modifications in V5.50(ABPM.3)b1_F0

Base on V5.50(ABPM.3)b1 to release V5.50(ABPM.3)b1_F0

[FEATURE ENHANCEMENT]

1. [#200100672] VMG3625-T20A_WiFi Key Detect Mechanism add SN
2. [#200200638] Unique ACS Username and Password
3. [#191200328] Utilize mrd MAC to make Wifi default SSID random digits

[BUG FIX]

1. [#200105375] SIP NAT rule fix
2. [#200100533] WAN interface with VLAN ID and default Gateway
3. [#200201141] Cannot save static IP in default gateway column

Modifications in V5.50(ABPM.2)C0

2. Base on V5.50(ABPM.2)b5 to release V5.50(ABPM.2)C0 FCS

Modifications in V5.50(ABPM.2)b5

[FEATURE ENHANCEMENT]

1. [#119655][#191200326] Unique ACS Username and Password

Modifications in V5.50(ABPM.2)b4

[FEATURE ENHANCEMENT]

1. [#119655][#191200326] Unique ACS Username and Password

[BUG FIX]

1. [#119350] After "Perform download diagnostic" and "Perform upload diagnostic" test case, 'DiagnosticsState' still Requested status.

Modifications in V5.50(ABPM.2)b3

[FEATURE ENHANCEMENT]

1. [#114453][#190900750] Listing processes on console might output pppd auth params
2. [#114498][#190900794] Listing processes on console might output pppd auth params
3. [#117174][#191100119] Language Settings : modify languages option
4. [#115339][#191000125] EMG3525 Include GenXML utility in firmware
5. [#115340][#191000127] EMG3525 Multiple Ethernet WAN-interfaces without VLAN-tag
6. [#114675][#190801225] DHCP pool configuration replace with interface group

[BUG FIX]

1. [#116658][#190500035] VMG8825 zcmd reach the maximum number of instant, will loop endless.
2. [#106705][#190500612] DHCP option 43 enabled by default
3. [#117469][#190800583] EMG3525-T50B_TR-069_UploadDiagnostics Fails

4. [#112113][#190800587] EMG3525-T50B_TR-069_TR143
DownloadDiagnostics inaccurate results
5. [#113907][#190900326] EMG3525 IGMPv3 used even if IGMPv2 is
configured
6. [#115144][#190901023] FRQ VMG8825-B50B QoS / static route ro
interface "drop"
7. [#115808][#191000575] XML GPV
InternetGatewayDevice.LANDevice.1.LANHostConfigManagement
.IPInterface.1.X_ZYXEL_DHCPv6Server.IANAPrefixes
8. [#116249][#191000920] VMG1312-T20B higher attenuation issue
9. [#116662][#191001109] VMG3625-T20A can't import trusted CA
10. [#112984][GUI] EMG5523-T50B should remove no interface name
checkbox in VoIP `Bound interface Name` setting.
11. [#115762][ACTS]Parental control warning message is strange word
12. [#116208] Verify WLAN Schedule rule Time can be empty

Modifications in V5.50(ABPM.2)b2

[FEATURE ENHANCEMENT]

1. [#105280][#190400662] DS Lite support DHCP option 64
configuration
2. [#115064][#190500098] Assistance to set softGRE on VMG8825-T50
3. [#106951][#190500597] OPAL Generic Feature Request for GMT
timezoe of Turkey
4. [#107569][#190600041] VMG8623-T50B - VoIP - Outgoing calls
dropped when the callee pick up the phone
5. [#107935][#190600082] GUI page will try to connect to a
unnecessary javascript/css
6. [#110767][#190700379] Multiple TCP-based remote denial of service
vulnerabilities
7. [#110554][#190700496] USB File Sharing case-sensitive issue
8. [#111461][#190800137] Pen Test Results - IZyShell Privilege Escalation
9. [#111526][#190800211] TR069 watchdog relaunch
10. [#113874][#190800234] Pen test results - Vulnerable software
packages - Risk [Various - See CVE score]
11. [#112114][#190800585]
EMG3525-T50B_TR-069_OperatingChannelBandwidth Incorrect

Value

12. [#112115][#190800588] EMG3525-T50B_TR-069_Total BytesSent and Total BytesReceived values remains on 0
13. [#113056][#190801239] EMG3525 QR-code for SSID not correct in GUI
14. [#114120][#190900534] EMG3525 Key-based authentication doesn't work

[BUG FIX]

1. [#111769][GUI] GUI description doesn't meet with latest OPAL ES
2. [#112208][USB] GUI pops strange message when add over 130 chars folder name
3. [#112763][Parental Control] The Network Service rule maximum records should be follow OPAL ES document.
4. [#112850][LAN]LAN IPv6 Prefix Setup is Static will fail.
5. [#112972][Security] The CRIME, TLS test result should show NOT vulnerable

Modifications in V5.50(ABPM.2)b1

[FEATURE ENHANCEMENT]

1. [eITS #181200595]: Support phones hook-state (on-hook/off-hook) in the web VoIP Status page
2. [eITS #190400092]: Support IGMP log on system log
3. [eITS #190400662]: Support DHCPv6 option64 for IPv6 DS-Lite
4. [eITS #190500612]: Enable DHCP option 43 by default
5. [eITS #190500747]: Support Portuguese GUI.
6. [eITS #190500597]: Support Turkey GUI.
7. [eITS #190500025]: [GUI]Separate LAN/WLAN as different column in remote management page.
8. [eITS #190700652]: Support Russian GUI
9. Support Czech GUI

[BUG FIX]

1. [eITS #190201272]: TR-181 has DSL-errors in Eth-WAN mode.
2. [eITS #190600043]: Correct incorrect spelling on voip call history

page.

3. [eITS #190501104]: Some TR069 atm parameters will be returned on eth/vdal/wwan interfaces with GPN.
4. [eITS #190600597]: Upload certificate error after changed gateway IP address
5. [eITS #190700674]: DHCP with one address ip(Configure LAN subnet mask to 255.255.255.252) in the pool don't work

Modifications in V5.50(ABPM.0)D0

1. Base on V5.50(ABPM.0)C0 to release V5.50(ABPM.0)D0 for Annex B version.

Modifications in V5.50(ABPM.0)C0

1. Base on V5.50(ABPM.0)b7 to release V5.50(ABPM.0)C0

Modifications in V5.50(ABPM.0)b7_D0

1. Base on V5.50(ABPM.0)b7 to release V5.50(ABPM.0)b7_D0 for Annex B version.

Modifications in V5.50(ABPM.0)b7

[FEATURE ENHACEMENT]

[BUG FIX]

1. [#107242] [WLAN] WPS LED didn't blink

Modifications in V5.50(ABPM.0)b6_D0

1. Base on V5.50(ABPM.0)b6 to release V5.50(ABPM.0)b6_D0 for Annex B version.

Modifications in V5.50(ABPM.0)b6

[FEATURE ENHACEMENT]

[BUG FIX]

1. [#105357] [Wifi]PR HW WPS button cannot work.
2. [#94713] [GUI] GUI should remove unsupported WAN type information.
3. [#105192] [GUI] EMG5523-T50B/EMG3525-T50B should remove xDSL.

4. [#106653] [LED] VMG3625-T50B Internet & WAN LED can't light on and Wi-Fi ON/OFF hardware button has no functional.
5. [#106654] [LED] EMG3525-T50B Internet & WAN LED can't light on and Wi-Fi ON/OFF hardware button has no functional.
6. [#95964] Console will hang up when DUT FW upgrade test via ACS
7. [#106264] [Common Bug Fix][ECONET-7516] - switching between WAN and LAN during the restart

Modifications in V5.50(ABPM.0)b5_D0

1. Base on V5.50(ABPM.0)b5 to release V5.50(ABPM.0)b5_D0 for Annex B version.

Modifications in V5.50(ABPM.0)b5

[FEATURE ENHACEMENT]

[BUG FIX]

1. [#105039][GUI] can't login via GUI with some of password.
2. [#105036][DSL] EN7512/EN7516 G.INP US/DS ONLY preferred cannot get IP when physical layer link is up.
3. [#103064][co-fw] EMG5523-T50B and EMG3525-T50B DSL hidden.
4. [#95969][zcfg] DUT can't backup config file.
5. [#95967] Model name isn't EMG5523-T50B.

Modifications in V5.50(ABPM.0)b4

[FEATURE ENHACEMENT]

[BUG FIX]

1. [BUGFIX] Cannot get IP when DSLAM vectoring enable
2. [BUGFIX] [EN7516][7.3.245.300] CVE-2017-11176 mqueue: fix a use-after-free in sys_mq_notify()

Modifications in V5.50(ABPM.0)b3

[FEATURE ENHACEMENT]

[BUG FIX]

1. VMG8623-T50B EU power table

Modifications in V5.50(ABPM.0)b2_D0

2. Base on V5.50(ABPM.0)b2 to release V5.50(ABPM.0)b2_D0 Annex B version.

Modifications in V5.50(ABPM.0)b2

[FEATURE ENHANCEMENT]

1.

VMG8623-T50B/EMG3525-T50B/VMG3625-T50B/VMG5523-T50B co-FW and co-boot file

1. GUI show/hidden based on the VD WAN or VoIP information, include VoIP, Broadband Advanced page. diag OAM and CFM page. XDSLStatistics page.
2. "sys atsh" command show correct model name.
3. Wan type option show / hidden support list.

2.

Support Annex A and Annex B co fw version

1. Use the different configuration to control it. Device.DSL.Line.{i}. X_ZYXEL_ADSL2_AnnexA_B

[BUG FIX]

Modifications in V5.50(ABPM.0)b1

First firmware release

[FEATURE ENHANCEMENT]

[BUG FIX]

Public Domain Software Announcements

Open Source Used in product (3rd party software)	Version	From (Source)	Licensing Term	Modified / Used
Bridge-Utils	1.5	http://bridge.sourceforge.net	GPLv2	Used
BusyBox	1.20.1	http://www.busybox.net/	GPLv2	Modified
clinkc	2.4	http://sourceforge.net/projects/clinkc/	BSD	Modified
dnsmasq	2.78	http://www.thekelleys.org.uk/dnsmasq/doc.html	GPLv2/GPLv3	Modified
dropbear	2018.76	http://matt.ucc.asn.au/dropbear/dropbear.html	MIT	Modified
ebtables	2.0.10-4	http://ebtables.sourceforge.net	GPLv2	Modified
eventlog	0.2.10	http://git.balabit.hu/?p=bazsi/eventlog-1.0.git;a=summary	BSD	Used
expat	1.95.8	http://expat.sourceforge.net/	MIT	Used
ez-ipupdate	3.0.11b8	http://ez-ipupdate.com/	GPLv2	Used
gettext	0.16	http://www.gnu.org/software/gettext/	GPLv2	Used
glib	2.37.7	http://www.gtk.org/	LGPLv2	Used
iproute2	2-2.6.33	http://repository.timesys.com/buildsources/i/iproute2/	GPLv2	Modified
iptables	1.4.21	http://www.netfilter.org	GPLv2	Modified
json-c	0.13.1	https://github.com/json-c/json-c/downloads	MIT	Modified
libedit	20080712-2.11	http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/	BSD	Modified
libffi	3.0.11	http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/	MIT	Used
libiconv	1.11.1	http://www.gnu.org/software/libiconv/	LGPL (GNU LIBRARY GENERAL PUBLIC LICENSE)	Modified

			V2)	
libnetfilter_queue	1.0.2	http://www.netfilter.org/projects/libnetfilter_queue/	GPLv2	Used
libnfnetlink	1.0.1	http://www.netfilter.org/projects/libnetfilter_queue/	GPLv2	Used
libpcap	1.1.1	www.tcpdump.org	BSD	Used
libqmi	1.8.0	http://www.freedesktop.org/wiki/Software/libqmi	LGPL v2.1(GNU LESSER GENERAL PUBLIC LICENSE V2.1)	Used
libtool	2.4	http://www.gnu.org/software/libtool/	GPLv2	Used
libusb	1.0.9	http://www.libusb.org/	LGPL 2.1	Used
libusb	1.0.9	http://libusb.wiki.sourceforge.net/	LGPL 2.1	Used
logrotate	3.7.1	https://launchpad.net/ubuntu/hardy/i386/logrotate/	GPLv2	Modified
ncurses	5.7	http://ftp.gnu.org/pub/gnu/ncurses/	MIT	Modified
net-snmp	5.7.2	http://www.net-snmp.org/	BSD/BSD-like	Modified
ntfs-3g	2013.1.13	http://ntfs-3g.org	GPLv2/LGPLv2	Used
ntpclient	2007_365	http://doolittle.icarus.com/ntpclient/	GPLv2	Modified
openssl	1.0.2n	http://www.openssl.org	Openssl (BSD-style)	Modified
popt	1.16	http://rpm5.org/files/popt/	MIT	Modified
ppp	2.4.3	http://www.roaringpenguin.com/pppoe	GPLv2/BSD	Modified
pure-ftpd	1.0.30	http://pureftpd.org	ISC/BSD	Modified
radvd	1.8	http://www.litech.org/radvd/	BSD	Used
readline	6.2	http://cnswww.cns.cwru.edu/php/chet/readline/	GPLv3	Used

		rltop.html		
samba	3.6.25	http://www.samba.org/samba/	GPLv3	Modified
syslog-ng	2.0.10	http://www.balabit.com/network-security/syslog-ng/	GPLv2/LGPLv2.1	Used
tcpdump	4.2.1	http://www.tcpdump.org/	BSD	Used
udhcp	0.9.8	http://udhcp.busybox.net/	GPLv2	Modified
usb-modeswitch	2.1.0	http://www.draisberghof.de/usb_modeswitch/	GPLv2	Used
WIDE-DHCPv6	20080615	http://wide-dhcpv6.sourceforge.net/	BSD	Modified
zebra	0.93a	http://www.zebra.org/	GPLv2/LGPLv2	Used

