

**VMG8623-T50B**  
**EMG5523-T50B**  
**VMG3625-T50B/T50C**  
**EMG3525-T50B/T50C**

Firmware Release Note

V5.50(ABPM.9.4)C0

Date: Dec. 27, 2024  
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## TABLE OF CONTENTS

<b>SUPPORTED PLATFORMS:</b> .....	<b>8</b>
<b>VERSIONS:</b> .....	<b>8</b>
<b>NOTES:</b> .....	<b>9</b>
<b>DEFAULT SETTINGS IN FIRMWARE</b> .....	<b>9</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.4)C0</b> .....	<b>10</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.4)B1</b> .....	<b>10</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.3)C0</b> .....	<b>10</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.3)B1</b> .....	<b>11</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.2)C0</b> .....	<b>11</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.2)B1</b> .....	<b>11</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.1)C0</b> .....	<b>11</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.1)B2</b> .....	<b>12</b>
<b>MODIFICATIONS IN V5.50(ABPM.9.1)B1</b> .....	<b>12</b>
<b>MODIFICATIONS IN V5.50(ABPM.9)C0</b> .....	<b>12</b>
<b>MODIFICATIONS IN V5.50(ABPM.9)B4</b> .....	<b>12</b>
<b>MODIFICATIONS IN V5.50(ABPM.9)B3</b> .....	<b>13</b>
<b>MODIFICATIONS IN V5.50(ABPM.9)B2</b> .....	<b>13</b>
<b>MODIFICATIONS IN V5.50(ABPM.8.1)C0</b> .....	<b>14</b>
<b>MODIFICATIONS IN V5.50(ABPM.8.1)B1</b> .....	<b>14</b>
<b>MODIFICATIONS IN V5.50(ABPM.8)C0</b> .....	<b>15</b>
<b>MODIFICATIONS IN V5.50(ABPM.8)B5</b> .....	<b>15</b>
<b>MODIFICATIONS IN V5.50(ABPM.8)B4</b> .....	<b>15</b>
<b>MODIFICATIONS IN V5.50(ABPM.8)B3</b> .....	<b>16</b>
<b>MODIFICATIONS IN V5.50(ABPM.8)B2</b> .....	<b>17</b>
<b>MODIFICATIONS IN V5.50(ABPM.7.4)C0</b> .....	<b>20</b>
<b>MODIFICATIONS IN V5.50(ABPM.7.4)B1</b> .....	<b>20</b>

MODIFICATIONS IN V5.50(ABPM.7.3)C0.....	20
MODIFICATIONS IN V5.50(ABPM.7.3)B1.....	20
MODIFICATIONS IN V5.50(ABPM.7.1)C0.....	20
MODIFICATIONS IN V5.50(ABPM.7.1)B1.....	20
MODIFICATIONS IN V5.50(ABPM.7)C0.....	21
MODIFICATIONS IN V5.50(ABPM.7)B5.....	21
MODIFICATIONS IN V5.50(ABPM.7)B4.....	21
MODIFICATIONS IN V5.50(ABPM.7)B3.....	22
MODIFICATIONS IN V5.50(ABPM.7)B2.....	23
MODIFICATIONS IN V5.50(ABPM.7)B1.....	25
MODIFICATIONS IN V5.50(ABPM.6)C0.....	26
MODIFICATIONS IN V5.50(ABPM.6)B9.....	26
MODIFICATIONS IN V5.50(ABPM.6)B8.....	26
MODIFICATIONS IN V5.50(ABPM.6)B7.....	26
MODIFICATIONS IN V5.50(ABPM.6)B6.....	27
MODIFICATIONS IN V5.50(ABPM.6)B5.....	28
MODIFICATIONS IN V5.50(ABPM.6)B4.....	28
MODIFICATIONS IN V5.50(ABPM.6)B3.....	29
MODIFICATIONS IN V5.50(ABPM.6)B2.....	30
MODIFICATIONS IN V5.50(ABPM.6)B1.....	31
MODIFICATIONS IN V5.50(ABPM.5)C0.....	33
MODIFICATIONS IN V5.50(ABPM.5)B1.....	33
MODIFICATIONS IN V5.50(ABPM.4)C0.....	33
MODIFICATIONS IN V5.50(ABPM.4)B5.....	33
MODIFICATIONS IN V5.50(ABPM.4)B4.....	33
MODIFICATIONS IN V5.50(ABPM.4)B3.....	34
MODIFICATIONS IN V5.50(ABPM.4)B2.....	34

MODIFICATIONS IN V5.50(ABPM.4)B1 .....	35
MODIFICATIONS IN V5.50(ABPM.3)B2_F0 .....	36
MODIFICATIONS IN V5.50(ABPM.3)B1_F0 .....	36
MODIFICATIONS IN V5.50(ABPM.2)C0.....	36
MODIFICATIONS IN V5.50(ABPM.2)B5.....	36
MODIFICATIONS IN V5.50(ABPM.2)B4.....	36
MODIFICATIONS IN V5.50(ABPM.2)B3.....	37
MODIFICATIONS IN V5.50(ABPM.2)B2.....	38
MODIFICATIONS IN V5.50(ABPM.2)B1.....	39
MODIFICATIONS IN V5.50(ABPM.0)D0.....	40
MODIFICATIONS IN V5.50(ABPM.0)C0.....	40
MODIFICATIONS IN V5.50(ABPM.0)B7_D0 .....	40
MODIFICATIONS IN V5.50(ABPM.0)B7.....	40
MODIFICATIONS IN V5.50(ABPM.0)B6_D0 .....	40
MODIFICATIONS IN V5.50(ABPM.0)B6.....	40
MODIFICATIONS IN V5.50(ABPM.0)B5_D0 .....	41
MODIFICATIONS IN V5.50(ABPM.0)B5.....	41
MODIFICATIONS IN V5.50(ABPM.0)B4.....	41
MODIFICATIONS IN V5.50(ABPM.0)B3.....	41
MODIFICATIONS IN V5.50(ABPM.0)B2_D0 .....	41
MODIFICATIONS IN V5.50(ABPM.0)B2.....	41
MODIFICATIONS IN V5.50(ABPM.0)B1.....	42
KNOWN ISSUES .....	42
PUBLIC DOMAIN SOFTWARE ANNOUNCEMENTS.....	43

## 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
2022/11/23	5.7	Jack Yeh	V5.50(ABPM.7.3)b1
2022/11/23	5.8	Jack Yeh	V5.50(ABPM.7.3)C0
2023/02/17	5.9	Jack Yeh	V5.50(ABPM.7.4)b1
2023/02/17	6.0	Jack Yeh	V5.50(ABPM.7.4)C0
2023/04/28	6.1	Jack Yeh	V5.50(ABPM.8)b2
2023/06/16	6.2	Jack Yeh	V5.50(ABPM.8)b3
2023/07/28	6.3	Jack Yeh	V5.50(ABPM.8)b4
2023/08/18	6.4	Jack Yeh	V5.50(ABPM.8)b5
2023/09/01	6.5	Jack Yeh	V5.50(ABPM.8)C0
2023/09/22	6.6	Jack Yeh	V5.50(ABPM.8.1)b1
2023/09/26	6.7	Jack Yeh	V5.50(ABPM.8.1)C0
2023/12/29	6.8	Jack Yeh	V5.50(ABPM.9)b2
2024/03/05	6.9	Jack Yeh	V5.50(ABPM.9)b3
2024/03/29	7.0	Jack Yeh	V5.50(ABPM.9)b4
2024/04/17	7.1	Jack Yeh	V5.50(ABPM.9)C0
2024/05/20	7.2	Jack Yeh	V5.50(ABPM.9.1)b1
2024/05/24	7.3	Jack Yeh	V5.50(ABPM.9.1)b2
2024/05/27	7.4	Jack Yeh	V5.50(ABPM.9.1)C0
2024/06/28	7.5	Jack Yeh	V5.50(ABPM.9.2)b1

2024/06/28	7.6	Jack Yeh	V5.50(ABPM.9.2)C0
2024/10/09	7.7	Jack Yeh	V5.50(ABPM.9.3)b1
2024/10/09	7.8	Jack Yeh	V5.50(ABPM.9.3)C0
2024/12/27	7.9	Jack Yeh	V5.50(ABPM.9.4)b1
2024/12/27	8.0	Jack Yeh	V5.50(ABPM.9.4)C0

**Zyxel VMG8623-T50B Generic**

**Zyxel EMG5523-T50B Generic**

**Zyxel VMG3625-T50B/T50C Generic**

**Zyxel EMG3525-T50B/T50C Generic**

## **V5.50(ABPM.9.4)C0 Release Note**

Date: Dec. 27, 2024

### **Supported Platforms:**

Zyxel VMG8623-T50B

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

Zyxel VMG3625-T50B/T50C (VMG8623-T50B remove VoIP)

Zyxel EMG3525-T50B/T50C (VMG8623-T50B remove VD WAN)

### **Versions:**

Bootbase Version: V1.49 | 04/28/2023 15:07:34

Firmware version : V5.50(ABPM.9.4)C0

Kernel version: 3.18.21

DSL driver version: V5.12.30.0\_240118

2.4G WLAN code version: 5.0.4.0

5G WLAN code version : 5.0.4.0

3G dongle WWAN package version: 1.26



## 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.

## [NOTE]

### 1. OpenSSL 3.1.2 Upgrade Notification

The certificates signed using SHA1 or older/weaker hashes are no longer supported for authenticating servers or clients.

Before upgrading the firmware:

- Please ensure that certificates in your devices are not using weak hashes.
- If weak hashes are detected, kindly update and verify your certificates promptly with stronger hash  
(The minimum recommended hash is SHA256)

## Modifications in V5.50(ABPM.9.4)C0

Base on V5.50(ABPM.9.4)b1 to release V5.50(ABPM.9.4)C0

### [FEATURE ENHANCEMENT]

### [BUG FIX]

## Modifications in V5.50(ABPM.9.4)b1

Base on V5.50(ABPM.9.3)C0 to release V5.50(ABPM.9.4)b1

### [FEATURE ENHANCEMENT]

### [BUG FIX]

1. [CVE-2024-12009] [Zyxel-SI-1591] [Vulnerability] Post-authentication command injection vulnerability in the function "ZyEE"
2. [CVE-2024-12010] [Zyxel-SI-1592] [Vulnerability] Post-authentication command injection vulnerability in the email sending function

## Modifications in V5.50(ABPM.9.3)C0

Base on V5.50(ABPM.9.3)b1 to release V5.50(ABPM.9.3)C0

### [FEATURE ENHANCEMENT]

### [BUG FIX]

## Modifications in V5.50(ABPM.9.3)b1

Base on V5.50(ABPM.9.2)C0 to release V5.50(ABPM.9.3)b1

### [FEATURE ENHANCEMENT]

### [BUG FIX]

1. [CVE-2024-20018] Improper input validation in wlan driver
2. [CVE-2024-9197] [Zyxel-SI-1583] [Vulnerability] Buffer overflow and potential command injection vulnerabilities
3. [CVE-2024-8748] [Zyxel-SI-1576] [Vulnerability] Unauthenticated buffer overflow.

## Modifications in V5.50(ABPM.9.2)C0

Base on V5.50(ABPM.9.2)b1 to release V5.50(ABPM.9.2)C0

### [FEATURE ENHANCEMENT]

### [BUG FIX]

## Modifications in V5.50(ABPM.9.2)b1

Base on V5.50(ABPM.9.1)C0 to release V5.50(ABPM.9.2)b1

### [FEATURE ENHANCEMENT]

1. [#240600745] Rejecting firmware due to WebGUI https CA handling and http shut down decision.

### [BUG FIX]

1. [CVE-2024-38266, 38267, 38268, 38269][Zyxel-SI-1559] [Vulnerability] Multiple authenticated buffer overflow vulnerabilities.
2. [#240600936] TR069 communication issue with authentication.

## Modifications in V5.50(ABPM.9.1)C0

Base on V5.50(ABPM.9.1)b2 to release V5.50(ABPM.9.1)C0

### [FEATURE ENHANCEMENT]

**[BUG FIX]**

## **Modifications in V5.50(ABPM.9.1)b2**

Base on V5.50(ABPM.9.1)b1 to release V5.50(ABPM.9.1)b2

**[FEATURE ENHANCEMENT]**

**[BUG FIX]**

1. [CVE-2024-5412][Zyxel-SI-1557][Vulnerability] Unauthenticated heap buffer overflow in the libclinkc library.

## **Modifications in V5.50(ABPM.9.1)b1**

Base on V5.50(ABPM.9)C0 to release V5.50(ABPM.9.1)b1

**[FEATURE ENHANCEMENT]**

**[BUG FIX]**

1. [System] LAN PC cannot obtain DHCP IP address if WAN disconnected and syslog enabled.
2. [GUI] QoS add new classification in Class Routing, GUI does not display Bridge wan interface.

## **Modifications in V5.50(ABPM.9)C0**

Base on V5.50(ABPM.9)b4 to release V5.50(ABPM.9)C0

**[FEATURE ENHANCEMENT]**

**[BUG FIX]**

## **Modifications in V5.50(ABPM.9)b4**

Base on V5.50(ABPM.9) b3 to release V5.50(ABPM.9) b4

**[FEATURE ENHANCEMENT]**

**[BUG FIX]**

1. [#240101401] CPE cannot receive Some Incoming Calls after

- Huawei adds the new SIP service port 5062 to the Soft Switch (SS).
2. [WAN] Internet LED didn't blink when transmitting data.
  3. [#240200784] GPN Device.WiFi. fail
  4. [#230501037] Max vs actual DL rate problem.

## Modifications in V5.50(ABPM.9)b3

Base on V5.50(ABPM.9) b2 to release V5.50(ABPM.9) b3

### [FEATURE ENHANCEMENT]

1. [#231200465] OPAL family, Feature improvement request - WAN ip lease time.

### [BUG FIX]

1. [System] Use admin account, GUI not show Parental Control card page.
2. [TR-181] GPV parameters third node will send FaultCode 9005.
3. [GUI] Traffic Status>LAN page has an extra column of 0.
4. [CVE-2024-0816][Zyxel-SI-1536] [Vulnerability] Buffer overflow vulnerability in the "traceroute" command

## Modifications in V5.50(ABPM.9)b2

Base on V5.50(ABPM.8.1)C0 to release V5.50(ABPM.9) b2

### [FEATURE ENHANCEMENT]

1. When the device is not a constrained device, it shall have an update mechanism for the secure installation of updates.
2. [#230400862] LED control
3. [#230601286] Dnsmasq version upgrade
4. [#230200423] TR-098 support for WiFi X\_ZYXEL\_CountryCode
5. [#220901661] Configurable WiFi Country Code (ISO 3166-1 alpha-2)
6. [#230101253] From CLI, display remaining lease time on WAN ip lease
7. [#230601075] XMPP / STUN server support
8. [Security] Setting Up the Password Strength
9. [#230301802][GUI] Add connected LANport to client information
10. [#230500277] CLI cfg command to IGMP snooping
11. MAC filter - MAC address mask.
12. [GUI] OPAL Generic Reboot Page Design

13. Hide information about password.
14. upgrade OpenSSL to 3.1.2
15. [#231000756] Feature Request - DHCP opt 12
16. [#231101419] How to change DOS Protection Blocking with TR098
17. [#221000325] support TR369

## [BUG FIX]

1. [GUI] Trace Route function of Diagnostic need to takes more time to finish
2. [CVE-2011-5053][Zyxel-SI-1498][Vulnerability] WPS vulnerability on CPE in WLAN
3. [System] Wish description Protected Management Frames want to abbreviation, should change to PMF not show Protected MGMT Frames.
4. [Security] Unauthenticated Access to APIs
5. [Security] Session/Cookie Security Test
6. [Security] Outdated Software
7. [Security] Header Security Test
8. [#230701168] FXS Hook Status / Boot Check
9. Upgrade curl to 8.4.0
10. [MPro Mesh] When the signal is strong, the expander should not form a daisy chain topology.
11. [#230900618] [PPPoE] UDP NAT bug
12. [CVE-2023-37929][Zyxel-SI-1506][Vulnerability] Post-authentication buffer overflow

## Modifications in V5.50(ABPM.8.1)C0

Base on V5.50(ABPM.8.1)b1 to release V5.50(ABPM.8.1)C0

### [FEATURE ENHANCEMENT]

## [BUG FIX]

## Modifications in V5.50(ABPM.8.1)b1

Base on V5.50(ABPM.8)C0 to release V5.50(ABPM.8.1)b1

## [FEATURE ENHANCEMENT]

### [BUG FIX]

1. [Vulnerability] Post-authentication buffer overflow

## Modifications in V5.50(ABPM.8)C0

Base on V5.50(ABPM.8) b5 to release V5.50(ABPM.8) C0

## Modifications in V5.50(ABPM.8)b5

Base on V5.50(ABPM.8) b4 to release V5.50(ABPM.8) b5

### [FEATURE ENHANCEMENT]

### [BUG FIX]

1. [MPro Mesh\_Agent] When wifi clients connect to RP\_Agent, all clients disappear in APP and Connectivity page.
2. [GUI] Diagnostic page doesn't work. except Nslookup.
3. [TR-143]TR143 HTTP download throughput too low.

## Modifications in V5.50(ABPM.8)b4

Base on V5.50(ABPM.8) b3 to release V5.50(ABPM.8) b4

### [FEATURE ENHANCEMENT]

1. [#230600832] SSID naming logic when disabling mesh and allowing separate SSIDs
2. MPro Mesh Guest SSID does not enable on Repeater devices.

### [BUG FIX]

1. [TR-143] The FTP download throughput can not get value successfully by TR-143 method
2. [WLAN] Repeater mode, use HW WPS trigger uplink with GW will fail
3. [System] GUI to change other language, description will change other language. But other(ex : title 、 options) will still show English, NAT > PCP page always show English.
4. [System] Create EE and install DU, GUI can't display ZyEE log.
5. [TR-069] TR-143 Perform download diagnostic, CPE not work and

DiagnosticsStates will show Error\_TransferFailed.

6. [System] Clicking the Help button the first time will redirect you to the URL, which should match the model number.
7. [Stress] Firmware Upgrade Stress testing via TR-069, DUT crazy happened call trace.
8. [WAN] Multi Wan: Routing+ Bridge. Reboot CPE, Bridge wan cannot work. If apply Bridge Wan again will work.
9. [Stress] Full Loading stress happen call trace. After 4 day, CPE will not send wifi beacon.
10. [WLAN] Huawei 20 Pro 、 Mi 11 Lite 5G 、 Mi 10T Andrioad smart phone and Mi TV will let CPE call Trace and reboot.
11. [Stress] ACS stress testing sending inform and Reboot, CPE happen call trace and the console hang. Only Power LED 、 LAN LED will show green on.
12. [TR-069] GPV TR-098 parameters will return fault code.
13. [TR-143] When Upload HTTP TR143 performance, TestBytesSent and TotalBytesSent value are incorrect.
14. [#230600833] Disabling Mesh does not bring down the backhaul, which is still broadcasted as a hidden SSID

## Modifications in V5.50(ABPM.8)b3

Base on V5.50(ABPM.8) b2 to release V5.50(ABPM.8) b3

### [FEATURE ENHANCEMENT]

1. Container based F-secure
2. GUI translation\_ES\_NL
3. GUI Compact help link adding ito GUI

### [BUG FIX]

1. [#230300498] NAT is not working properly
2. [WLAN] CPE has 802.11 ax mode in 5G wireless page
3. [Wi-Fi] 2.4GHz & 5GHz Wi-Fi function has been disabled, the 5GHz wireless button should not be enabled by automatically after 2.4GHz be enabled.
4. [GUI] SPV Customer warning message to WEB UI then check GUI warning message, CPE some page warning message location run away
5. [WLAN] Enable EasyMesh , Role is an Agent and Login Username is



- 'admin'. Wifi tab labels do not match the ES definition
6. Operation Mode page should show in Wireless tab labels, not show in Maintenance function.
  7. CPE support ZYEE, Log and Log Settings System Log option not support ZYEE.
  8. CPE's Connection Request URL pass through wrong way(Random : 1/5)
  9. [MPro Mesh] VMG8623-T50B Perform Mesh Full Factory Reset --- test failed
  10. Use TR069 to set HTTPS Enable WAN side Remote MGMT, HTTP services not synchronized to the same settings of HTTPS services.
  11. [WAN] Internet LED didn't blink when transmitting data with Multi\_WAN.
  12. Subject should NOT be blank for Create a new Certificate or import a Certificate
  13. [MPro Mesh\_Android] When APP to Device List page, it spend long time to refresh.
  14. [MPro Mesh\_Agent] Gateway Internet Speed does not work.
  15. [MPro Mesh\_Agent] After set a schedule rule via APP, the time will be disappear.
  16. [WLAN] Repeater mode, use HW WPS trigger uplink with GW will fail
  17. [#230500907] Possible security flaw that allows to retrieve root password

## Modifications in V5.50(ABPM.8)b2

Base on V5.50(ABPM.7.4)C0 to release V5.50(ABPM.8)b2

### [FEATURE ENHANCEMENT]

1. [#221000063]change the wording in SteerStatus
2. [#221101418] Partial factory reset option with firmware upgrades.
3. [#220701077][System] Soft-Reset feature
4. [#230201111] iperf -R not implemented
5. Parental Control support Gen2
6. Networks Topology
7. Support Web http redirect to https.
8. [#221200531] Update MCT modem code
9. [#221200506]Configuration of the AFTR should be possible with URL

10. [#220900410] DHCP option providing CPE firmware version
11. [#230100744] bridge config improvement
12. [#221101135] [VoIP] SIP TLS encapsulation - supports SIP-over-TLS.
13. [ETSI EN 303 645] The consumer IoT device shall protect the confidentiality of critical security parameters that are communicated via remotely accessible network interfaces
14. Support APP 3.0
15. [#220901660] Translation error WIFI password strength
16. [#220501388] [GUI] Custom warning message to WEB UI
17. [ETSI EN 303 645] 5.8-2: The confidentiality of sensitive personal data communicated between the device and associated services shall be protected, with cryptography appropriate to the properties of the technology and usage.
18. [ETSI EN 303 645] 5.8-2: The confidentiality of sensitive personal data communicated between the device and associated services shall be protected, with cryptography appropriate to the properties of the technology and usage.
19. [ETSI EN 303 645] The consumer IoT device shall protect the confidentiality of critical security parameters that are communicated via remotely accessible network interfaces
20. VMG8623-T50B Series support ZYEE

## **[BUG FIX]**

1. [#230400106] DNSProxy issue when Primary DNS unreachable
2. [#230301653] CurrentTime not reporting in accordance to the TR-069 standard
3. [#230201161] enable/disable SSH via ACS
4. [#230300429] certificate Common Name doesn't match host name
5. [#221200930] romd backup include option 125 devices specific option value
6. [#230300494] GUI menu visible prior to login
7. [#230101319] Lifemote trigger uncontrolled memory usage with script that is working for all other device types
8. [MPro Mesh] The "stale=Yes" scenario occurs during the AP roaming test.
9. [MPro Mesh\_Agent] After using "MPro Mesh" APP to logout or swipe

up the screen to close it or enable wifi guest, it will always lead APP relogin fail.

10. [MPro Mesh] RP Agent's GUI show wrong SSID after modify main or guest-1 SSID to special characters then turn on WIFI.
11. [MGMT] MGMT remote page to enable SNMP WAN, CPE SNMP page function should not auto enable.
12. [MPro Mesh\_APP] APP keep loading
13. [#230100382] Not possible too enable 5GHz WiFi in GUI, if WiFi first is turned off by physical button
14. [#221100865] TransferComplete messages without Start/Complete Time value
15. [#230100138] rom-d backup
16. [#221200452] Activate IPV6 Default gateway by TR069
17. [#221101734] No Management connection with new FW Version
18. [GUI][Internal] Create more than one interface group, the 2nd or latest group name will show empty.
19. [#220800822] Auto sensing - Unable to dial up IPoE
20. [#220600376] WANtoLAN Bridged
21. [#220601144] WiFi button not working correct (behavior change)
22. [#220500364] CCWAN bridging method not working with multiWAN
23. [System] Refresh button in ZyEE Monitor page works fail
24. [#220200828] Wi-Fi Password - Special characters
25. [System] The Active and Idle button for EU cannot work
26. [CVE-2022-4203,4304,4450][CVE-2023-0215~0217,0286,0401][Zyxel-SI-1464] [Vulnerability] OpenSSL multiple vulnerabilities
27. [CVE-2022-4203,4304,4450][CVE-2023-0215~0217,0286,0401][Zyxel-SI-1464] [Vulnerability] OpenSSL multiple vulnerabilities
28. [#221101357] Issues with setting some parameters via TR069
29. [#221101357] Issues with setting some parameters via TR069
30. [#220401035] [TR-069] SPV WiFi BeaconType failed
31. [#220900371] NTP Time Server URL cannot support "-"
32. [MPro Mesh\_Agent] After disable all extender, its will stay in Home page over 3 minutes online status then change to No connection status
33. [VoIP] SIP account can't conversation when enable SRTP function
34. [VoIP] SIP account can't conversation when enable SRTP function

## Modifications in V5.50(ABPM.7.4)C0

Base on V5.50(ABPM.7.4)b1 to release V5.50(ABPM.7.4)C0

## Modifications in V5.50(ABPM.7.4)b1

Base on V5.50(ABPM.7.3)C0 to release V5.50(ABPM.7.4)b1

### [FEATURE ENHANCEMENT]

#### [BUG FIX]

1. [#220701268] Low uplink throughput
2. [#221200678] Wrong interface used to answer ping

## Modifications in V5.50(ABPM.7.3)C0

Base on V5.50(ABPM.7.3)b1 to release V5.50(ABPM.7.3)C0

## Modifications in V5.50(ABPM.7.3)b1

Base on V5.50(ABPM.7.1)C0 to release V5.50(ABPM.7.3)b1

### [FEATURE ENHANCEMENT]

#### [BUG FIX]

1. [Security 4.2.9] Unsafe User-Controlled Configuration Data (SMB)
2. Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability
3. Zyxel-SI-1441 [Vulnerability] Hidden SSID and symbolic Links in ftpd
4. [#221200500] NTP not working if URL contains '-'

## 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]

1. [Stress] After TR-069 stress testing - Reboot + change PPP username/password, DUT did not work properly.
2. [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).
3. [Security] CPE happen "Invalid memory segment access" after Create Certificate Request
4. [#211000655][VoIP] wrong Tone after B-party end the call

## 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 pge 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 cwnp 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

## Modifications in V5.50(ABPM.6)b8

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

### [FEATURE ENHANCEMENT]

1. [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 - lZyShell 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 ENHANCEMENT]

#### [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 ENHANCEMENT]

#### [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 ENHANCEMENT]

#### [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 ENHACEMENT]

[BUG FIX]

## Known issues

## Public Domain Software Announcements

Open Source Used in product (3rd party software)	Version	From (Source)	Licensing Term	Modified / Used
atftp	0.7.1	<a href="https://sourceforge.net/projects/atftp/">https://sourceforge.net/projects/atftp/</a>	GPL-2.0-only	Modified
Bridge-Utils	1.0.6	<a href="http://bridge.sourceforge.net">http://bridge.sourceforge.net</a>	GPL-2.0-only	Used
BusyBox	1.20.1	<a href="http://www.busybox.net/">http://www.busybox.net/</a>	GPL-2.0-only	Modified
clinkc	2.4	<a href="http://sourceforge.net/projects/clinkc/">http://sourceforge.net/projects/clinkc/</a>	BSD-3-Clause	Modified
dnsmasq	2.85	<a href="http://www.thekelleys.org.uk/dnsmasq/doc.html">http://www.thekelleys.org.uk/dnsmasq/doc.html</a>	GPL-2.0-only	Modified
dropbear	2022.83	<a href="http://matt.ucc.asn.au/dropbear/dropbear.html">http://matt.ucc.asn.au/dropbear/dropbear.html</a>	MIT	Modified
ebtables	2.0.8-2	<a href="http://ebtables.sourceforge.net">http://ebtables.sourceforge.net</a>	GPL-2.0-only	Modified
eventlog	0.2.10	<a href="http://git.balabit.hu/?p=bazsi/eventlog-1.0.git;a=summary">http://git.balabit.hu/?p=bazsi/eventlog-1.0.git;a=summary</a>	BSD-3-Clause	Used
expat	2.5	<a href="http://expat.sourceforge.net/">http://expat.sourceforge.net/</a>	MIT	Used
ez-ipupdate	3.0.11b8	<a href="http://ez-ipupdate.com/">http://ez-ipupdate.com/</a>	GPL-2.0-only	Used
gettext	0.16.1	<a href="http://www.gnu.org/software/gettext/">http://www.gnu.org/software/gettext/</a>	GPL-2.0-only	Used
glib	2.37.7	<a href="http://www.gtk.org/">http://www.gtk.org/</a>	LGPL-2.0-only	Used
iproute2	2.6.33	<a href="http://repository.timesys.com/buildsources/i/iproute2/">http://repository.timesys.com/buildsources/i/iproute2/</a>	GPL-2.0-only	Modified
iptables	1.4.10	<a href="http://www.netfilter.org">http://www.netfilter.org</a>	GPL-2.0-only	Modified

json-c	0.13	<a href="https://github.com/json-c/json-c/downloads">https://github.com/json-c/json-c/downloads</a>	MIT	Modified
libedit	20080712-2.11	<a href="http://pkgs.fedoraproject.org/repos/libedit/libedit-20080712-2.11.tar.gz/">http://pkgs.fedoraproject.org/repos/libedit/libedit-20080712-2.11.tar.gz/</a>	BSD-3-Clause	Modified
libffi	3.0.11	<a href="http://pkgs.fedoraproject.org/repos/libffi/libffi-3.0.11.tar.gz/">http://pkgs.fedoraproject.org/repos/libffi/libffi-3.0.11.tar.gz/</a>	MIT	Used
libiconv	1.11.1	<a href="http://www.gnu.org/software/libiconv/">http://www.gnu.org/software/libiconv/</a>	LGPL-2.0-only	Modified
libnetfilter_queue	1.0.2	<a href="http://www.netfilter.org/projects/libnetfilter_queue/">http://www.netfilter.org/projects/libnetfilter_queue/</a>	GPL-2.0-only	Used
libnfnethlink	1.0.1	<a href="http://www.netfilter.org/projects/libnetfilter_queue/">http://www.netfilter.org/projects/libnetfilter_queue/</a>	GPL-2.0-only	Used
libpcap	1.1.1	<a href="http://www.tcpdump.org">www.tcpdump.org</a>	BSD-3-Clause	Used
libtool	2.4	<a href="http://www.gnu.org/software/libtool/">http://www.gnu.org/software/libtool/</a>	GPL-2.0-only	Used
libusb	1.0.9	<a href="http://www.libusb.org/">http://www.libusb.org/</a>	LGPL-2.1-only	Used
logrotate	3.7.1	<a href="https://launchpad.net/ubuntu/hardy/i386/logrotate/">https://launchpad.net/ubuntu/hardy/i386/logrotate/</a>	GPL-2.0-only	Modified
ncurses	5.7	<a href="http://ftp.gnu.org/pub/gnu/ncurses/">http://ftp.gnu.org/pub/gnu/ncurses/</a>	MIT	Modified
net-snmp	5.8	<a href="http://www.net-snmp.org/">http://www.net-snmp.org/</a>	BSD-3-Clause	Modified
ntfs-3g	2022.10.3	<a href="http://ntfs-3g.org">http://ntfs-3g.org</a>	GPL-2.0-only	Used
ntpclient	2007_365	<a href="http://doolittle.icarus.com/ntpclient/">http://doolittle.icarus.com/ntpclient/</a>	GPL-2.0-only	Modified
openssl	3.1.2	<a href="http://www.openssl.org">http://www.openssl.org</a>	OpenSSL	Modified
popt	1.16	<a href="http://rpm5.org/files/popt/">http://rpm5.org/files/popt/</a>	MIT	Modified
ppp	2.4.3	<a href="http://www.roaringpenguin.com/ppp">http://www.roaringpenguin.com/ppp</a>	GPL-2.0-only	Modified

pure-ftpd	1.0.50	<a href="http://pureftpd.org">http://pureftpd.org</a>	ISC	Modified
radvd	1.8	<a href="http://www.litech.org/radvd/">http://www.litech.org/radvd/</a>	BSD-3-Clause	Used
readline	5.2	<a href="http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html">http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html</a>	GPL-2.0-only	Used
samba	3.6.25	<a href="http://www.samba.org/samba/">http://www.samba.org/samba/</a>	GPL-2.0-only	Modified
sqlite	3.6.23.1	<a href="http://www.sqlite.org/">http://www.sqlite.org/</a>	Public-Domain	Used
syslog-ng	3.38.1	<a href="http://www.balabit.com/network-security/syslog-ng/">http://www.balabit.com/network-security/syslog-ng/</a>	GPL-2.0-only	Used
tcpdump	4.99.4	<a href="http://www.tcpdump.org/">http://www.tcpdump.org/</a>	BSD-3-Clause	Used
udhcp	0.9.8	<a href="http://udhcp.busybox.net/">http://udhcp.busybox.net/</a>	GPL-2.0-only	Modified
usb-modeswitch	2.1.0	<a href="http://www.draisberghof.de/usb_modeswitch/">http://www.draisberghof.de/usb_modeswitch/</a>	GPL-2.0-only	Used
WIDE-DHCPv6	20080615	<a href="http://wide-dhcpv6.sourceforge.net/">http://wide-dhcpv6.sourceforge.net/</a>	BSD-3-Clause	Modified
miniupnpd	2.3.1	<a href="http://miniupnp.free.fr/">http://miniupnp.free.fr/</a>	BSD-3-Clause	Used
curl	8.4.0	<a href="https://curl.se/">https://curl.se/</a>	MIT	Modified
quagga	1.2.4	<a href="https://github.com/Quagga/quagga">https://github.com/Quagga/quagga</a>	GPL-2.0-only	Modified