

VMG4005-B50A/ VMG4005-B60A Generic

Firmware Release Note

V5.15(ABQA.2.1)C0

Date: March 13, 2024

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Reviewer:

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Revision History

Date	Release	Author	Description
2019/5/31	1.0	Ivan Chiang	V5.15(ABQA.0)b1
2019/6/28	1.1	Ivan Chiang	V5.15(ABQA.0)b2
2019/7/23	1.2	Ivan Chiang	V5.15(ABQA.0)b3
2019/8/12	1.3	Ivan Chiang	V5.15(ABQA.0)b4
2019/8/30	1.4	Ivan Chiang	V5.15(ABQA.0)b5
2019/9/25	1.5	Ivan Chiang	V5.15(ABQA.0)b6
2019/10/21	1.6	Ivan Chiang	V5.15(ABQA.0)C0
2019/10/21	1.7	Ivan Chiang	V5.15(ABQA.1)b1
2020/4/7	1.8	CHI-HAO.LO	V5.15(ABQA.1)b2
2020/4/10	1.9	Howard Chen	V5.15(ABQA.1)C0
2020/5/29	2.0	CHI-HAO.LO	V5.15(ABQA.2)b2
2020/7/3	2.1	CHI-HAO.LO	V5.15(ABQA.2)b3
2021/1/29	2.2	CHI-HAO.LO	V5.15(ABQA.2)b4
2021/7/2	2.3	CHI-HAO.LO	V5.15(ABQA.2)b5
2021/8/25	2.4	CHI-HAO.LO	V5.15(ABQA.2)b6
2022/11/16	2.5	CHI-HAO.LO	V5.15(ABQA.2)b7
2022/11/16	2.6	CHI-HAO.LO	V5.15(ABQA.2)C0
2024/3/1	2.7	CHI-HAO.LO	V5.15(ABQA.2.1)b1
2024/3/13	2.8	CHI-HAO.LO	V5.15(ABQA.2.1)b2
2024/3/13	2.9	CHI-HAO.LO	V5.15(ABQA.2.1)C0

Zyxel VMG4005-B50A/VMG4005-B60A V5.15(ABQA.2.1)C0 Release Note

Date: March 13, 2024

Supported Platforms:

Zyxel VMG4005-B50A / Zyxel VMG4005-B60A

Versions:

Bootbase Version: V1.57 | 01/27/2021 17:12:24

Firmware version : V5.15(ABQA.2.1)C0

Kernel version: 4.1.51

VMG4005-B50A Annex A DSL modem code version: A2pvfbH046y

VMG4005-B60A Annex B DSL modem code version: B2pvfbH046w

DSL driver version: d27j

Notes:

Linux console:

uname -a

adsl --version

Default Settings in Firmware

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

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	2.67	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	0.12	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)	Modified

			LIBRARY GENERAL PUBLIC LICENSE V2)	
libnetfilter_queue	1.0.2	http://www.netfilter.org/projects/libnetfilter_queue/	GPLv2	Used
libnftnl	1.0.1	http://www.netfilter.org/projects/libnftnl/	GPLv2	Used
libpcap	1.1.1	www.tcpdump.org	BSD	Used
libtool	2.4	http://www.gnu.org/software/libtool/	GPLv2	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
ntfs-3g	2013.1.13	http://ntfs-3g.org	GPLv2/LGPLv2	Used
ntplib	2007_365	http://doolittle.icarus.com/ntplib/	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	5.2	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	GPLv2	Used
sqlite	3.6.23.1	http://www.sqlite.org/	Public Domain License	Used
syslog-ng	2.0.10	http://www.balabit.com/network-security/syslog-ng/	GPLv2	Used
tcpdump	4.2.1	http://www.tcpdump.org/	BSD	Used
udhcp	0.9.8	http://udhcp.busybox.net/	GPLv2	Modified
WIDE-DHCPv6	20080615	http://wide-dhcpv6.sourceforge.net/	BSD	Modified

6				
zebra	0.93a	http://www.zebra.org/	GPLv2/LG PLv2	Used

External Information:

Known issues

Modules	Issue	Risk Impact Information

Modifications in 5.15(ABQA.2.1)C0

5.15(ABQA.2.1)C0 FCS based on 5.15(ABQA.2.1)b2

- Feature Enhancement

Modified Modules	Features Enhancement List

- Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.15(ABQA.2.1)b2

5.15(ABQA.2.1)b2 based on 5.15(ABQA.2.1)b1

- Feature Enhancement

Modified Modules	Features Enhancement List

- Bug Fixed

Modified Modules	Bug Fixed List
Security	[Vulnerability] Zyxel-SI-1536 [Vulnerability] Buffer overflow vulnerability in the "traceroute" command of DX3300-T1 CPE

Modifications in 5.15(ABQA.2.1)b1

5.15(ABQA.2.1)b1 based on 5.15(ABQA.2)C0

- **Feature Enhancement**

Modified Modules	Features Enhancement List

- **Bug Fixed**

Modified Modules	Bug Fixed List
Security	[Vulnerability] Zyxel-SI-1536 [Vulnerability] Buffer overflow vulnerability in the "traceroute" command of DX3300-T1 CPE

Modifications in 5.15(ABQA.2)C0

5.15(ABQA.2)C0 FCS based on 5.15(ABQA.2)b7

- **Feature Enhancement**

Modified Modules	Features Enhancement List

- **Bug Fixed**

Modified Modules	Bug Fixed List

Modifications in 5.15(ABQA.2)b7

5.15(ABQA.2)b7 based on 5.15(ABQA.2)b6

- **Feature Enhancement**

Modified Modules	Features Enhancement List

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● Bug Fixed

Modified Modules	Bug Fixed List
Security	Zyxel-SI-1391 [Vulnerability] OS command injections and potential buffer overflows
	Zyxel-SI-1377 [Vulnerability] cleartext storage of sensitive information
	[Vulnerability] Infinite loop in BN_mod_sqrt() of OpenSSL when parsing certificates
	Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability

Modifications in 5.15(ABQA.2)b6

5.15(ABQA.2)b6 based on 5.15(ABQA.2)b5

● Feature Enhancement

Modified Modules	Features Enhancement List
Phy	[eits # 210700344] [A1] [Mantis-6341] New xDSL Phy

● Bug Fixed

Modified Modules	Bug Fixed List
QOS	[eits # 200201321][A1] QOS is not working as expected

Modifications in 5.15(ABQA.2)b5

5.15(ABQA.2)b5 based on 5.15(ABQA.2)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
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certificate	[eits # 200900419] VMG4005-B60A - how to upload the certificate via TR069
	[eits # 200100140] CETIN, VMG4005-B60A, FRQ - upload certificate via TR-069
Config	[eits #210601087] [Cetin] VMG4005-B60A default configuration change „Disable IPv4 Firewall, IPv6 Firewall and Dos Protection Blocking“
Bridge	[eits #200102989] CETIN, VMG4005-B60A - BridgeVlanCounter - counters (TR069)
GUI	[eits #210301552] [A1] [Mantis-6172] Missing Port forwarding-Configuration (towards untagged NATed LAN-Clients)
EOC	[eits #210501155] [CETIN] VMG4005-B60A - new EOC registry format
	[eits #210501156] [CETIN] VMG4005-B60A - EOC registry values should take effect without RTFD

● Bug Fixed

Modified Modules	Bug Fixed List
TR069	[eits #200102982] CETIN, VMG4005-B60A - BridgeVlanCounter (TR069)
	[eits #200102937] CETIN, VMG4005-B60A - DSL Line parameters (TR069)
	[eits #200102938] CETIN, VMG4005-B60A - DSL Channel parameters (TR069)
	[eits #200102951] CETIN, VMG4005-B60A - PTM Link parameters (TR069)
	[eits #200102966] CETIN, VMG4005-B60A - Ethernet Link - NumberOfEntries (TR069)
	[eits #200102971] CETIN, VMG4005-B60A - Ethernet Link - LastChange (TR069)
	[eits #200102976] CETIN, VMG4005-B60A - Ethernet VLANTermination - NumberOfEntries (TR069)
	[eits #200102981] CETIN, VMG4005-B60A - Ethernet

	VLANTermination - LastChange (TR069)
	[eits #200102994] CETIN, VMG4005-B60A - PPP - InterfaceNumberOfEntries (TR069)
	[eits #200103028] CETIN, VMG4005-B60A - IP Interface - number of entries (TR069)
	[eits #200103033] CETIN, VMG4005-B60A - IP interface - LAN - LastChange (TR069)
	[eits #200103040] CETIN, VMG4005-B60A - BondingGroup - BondedChannelNumber (TR069)
	[eits #210501559][CETIN] VMG4005-B60A - TR069 - Parameter DefaultGatewayface cannot be changed
DSL	[eits #210501558][CETIN] VMG4005-B60A - both DSL lines are not synchronized at the same time
Time	[eits #210200498] [200814] VMG4005-B50B / NTP Sync issue in bridge mode

Modifications in 5.15(ABQA.2)b4

5.15(ABQA.2)b4 based on 5.15(ABQA.2)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
FW	[eits #190800784] VMG4005-B60A - firmware banks management missing
certificate	[eits #190900339] VMG4005-B60A - local certificate used by TR-069 Client
GUI	[eits #190900329] VMG4005-B60A - DSL lines administrative status in WebGUI
Driver	[eits #210100660] New xDSL Phy
	[eits #210100664] New DSL Linedriver

● Bug Fixed

Modified Modules	Bug Fixed List
TR069	[eits #190900225] VMG4005-B60A - bonding group statistics are not collected (TR069)

	[eits # 190900220] VMG4005-B60A - DSL line and channel counters show wrong data in TR069
	[eits # 190900228] VMG4005-B60A - VLAN termination
Security	[Vulnerability] Arbitrary remote code execution (RCE) on the device through an HTTP request
	[Vulnerability] Unauthenticated Denial-of-Service effectively disabling the device's web-interface
	[Common][CVE-2020-1971][Openssl] Correctly compare EdiPartyName in GENERAL_NAME_cmp()
	Dnsmasq multiple vulnerabilities (DNSPooq)
	[Vulnerability][EESBU] Vulnerabilities in Multiple Zyxel Equipment from Sec consult

Modifications in 5.15(ABQA.2)b3

5.15(ABQA.2)b3 based on 5.15(ABQA.2)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
kernel	[eits # 200102928] CETIN, VMG4005-B60A - UNI Rx Errors (TR069)
	[eits # 190900336] VMG4005-B60A - 64 bit counters (TR069)
	[eits # 190900224] VMG4005-B60A - parameter counters of "TX and RX number of octets/bytes" are only 32 bit (TR069)
	[eits # 191000361] WAN traffic status in WebGUI
	[eits # 190900331] LAN traffic status in WebGUI
certificate	[eits # 190900363] VMG4005-B60A - certificate management in TR069
ipv6	[eits # 200103023] CETIN, VMG4005-B60A - IPv6Capable (TR069)
GUI	[eits # 190700654] VMG4005-B60A - Last status change of UNI

● Bug Fixed

Modified Modules	Bug Fixed List
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broadband	[eits #190900681] [Germany] Missing Annex J by VMG 4005-B60A
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Modifications in 5.15(ABQA.2)b2

5.15(ABQA.2)b2 based on 5.15(ABQA.1)C0

● Feature Enhancement

Modified Modules	Features Enhancement List
modem	[eits #200400312] [A1] [Mantis-5607] New DSL Phy
dhcp	[eits #190801240] VMG4005-B60A - DHCP times in TR069
dhcp	[eits #190800818] VMG4005-B60A - There is no info about configuration obtained via DHCP in WebGUI
zhttpd	[eits #190900232] VMG4005-B60A - multipair DSL interface (bonding) statistics in WebGUI
Tr069	[eits #200100140] CETIN, VMG4005-B60A, FRQ - upload certificate via TR-069
webgui	[eits #190900327] VMG4005-B60A - Last status change of UNI (TR069)
webgui	[eits #190801236] VMG4005-B60A - provisioning code in WebGUI

● Bug Fixed

Modified Modules	Bug Fixed List
log	[eits #190900883] [Germany] Log Time for DHCP and TR069 not correct VMG 4005-B60A
certificates	[eits #190900368] VMG4005-B60A - wrong number of certificates in TR069

Modifications in 5.15(ABQA.1)C0

FCS based on 5.15(ABQA.1)b2

Modifications in 5.15(ABQA.1)b2

● Feature Enhancement

Modified Modules	Features Enhancement List

- **Bug Fixed**

Modified Modules	Bug Fixed List
libzyutil	DUT reset configuration to default if ROMFILE block has an error bit
GUI_Vue	WAN mac address order should be changed for VMG4005 project

Modifications in 5.15(ABQA.1)b1

- **Feature Enhancement**

Modified Modules	Features Enhancement List
GUI	[eits #190900895] VMG4005-B60A - NTP servers obtained via DHCP are not written to configuration

- **Bug Fixed**

Modified Modules	Bug Fixed List
GUI	[eits #191000604] VMG4005-B60A When accessing System Monitor > Traffic Status > WAN, system crashes
TR-069	[eits #190900327] VMG4005-B60A - Last status change of UNI (TR069)
	[eits #190900227] VMG4005-B60A - Ethernet link statistics are not collected (TR069)

Modifications in 5.15(ABQA.0)C0

- **Feature Enhancement**

Modified Modules	Features Enhancement List
RomFile	[eits #191000488] VMG4005-B50A The Parameter "Validate ACS certificate" must be activated by default

Modifications in 5.15(ABQA.0)b6

[FEATURE ENHANCEMENT]

1. [eits #190700655] VMG4005-B60A - Counters of frames per VLAN
2. [eits #190700758] VMG4005-B60A - QoS at Ethernet UNI
3. [eits #190800145] VMG4005-B60A - management via IPv6
4. [eits #190800150] VMG4005-B60A - MAC address limiting
5. [eits #190801084] New DSL physical modem code upgrade to A2pvfbH045o1 for VMG4005-B50A
6. [eits #190900263] New DSL physical driver to DSL-Phy 027h VMG 4005-B50A

[BUG FIX]

1. [eits #190800778] VMG4005-B60A - CPE does not send LPR (lost of power)
2. [eits #190900048] VMG4005-B60A - Insufficient input validation for NTP server
3. [eits #190900094] Port mirror can't be activate by the user "tccadmin"
4. [eits #190900677] Why Upgrade WWAN Package VMG 4005-B60A

Modifications in 5.15(ABQA.0)b5

[FEATURE ENHANCEMENT]

1. [eits #190700653] VMG4005-B60A - Dropped frames counters at UNI
2. [eits #190700654] VMG4005-B60A - Last status change of UNI
3. [eits #190700760] VMG4005-B60A - DSCP of management traffic
4. [eits #190700757] VMG4005-B60A - ATM PVC assignment according to VLAN
5. [eits #190800149] VMG4005-B60A - MAC address learning
6. [eits #190800147] VMG4005-B60A - MAC address table
7. [eits #190800506] VMG4005-B60A - DHCP option 42
8. [eits #190700614] Feature request enhanced DSL Broadcom config VMG 4005-B50A
9. [eits #190700788] DSL configuration MANTIS-5263 VMG

4005_B50A

10. [eits #190800444] untypical STUN messages was send by the VMG4005
11. [eits #190800772] AW: Summary of the results ACS-Tests
12. [eits #190801162] Inventory information not correct send to the DSLAM side VMG 4005-B50A

[BUG FIX]

1. [eits #190700790] DHCP Option(121) MANTIS-5265 works not correct VMG 4005-B50A
2. [eits #190800354] Disable the IGMP proxy and the MLD Proxy by default
3. [eits #190700789] VDSL2 SRA/G.inp Profile: Incorrect Att Bitrate on short distance loops VMG 4005-B50A
4. [eits #190800504] VMG4005-B60A - Downloading of certificate
5. [eits #190800557] VMG4005-B60A - vectoring issue

Modifications in 5.15(ABQA.0)b4

[FEATURE ENHACEMENT]

1. [eits #190600295] VMG4005-B60A - DNS server running
2. [eits #190700340] VMG4005-B60A - not enough space to store 10 certificates
3. [eits #190700615] New DSL physical driver VMG 4005-B50A
4. [eits #190700616] Feature request support FDPS VMG 4005-B50A
5. [eits #190700618] Disable the V43 G.hs toneset VMG 4005-B50A
6. [eits #190700619] Feature request LongReach-VDSL2 mode VMG 4005-B50A
7. [eits #190700656] VMG4005-B60A - Counters by different type of frame
8. [eits #190700610] Inventory information not correct send to the DSLAM side VMG 4005-B50A
9. [eits #190700883] Password Reset [MANTIS-5267] User Account 'tccadmin' VMG4005-B50A
10. [eits #190700939] VMG4005-B60A - LAN interface shall be without IP address
11. [eits #190701025] VMG4005-B60A - request to change default settings (the fixed password for the "root" user)

[BUG FIX]

1. [eits #190400800] VMG4005-B60A - Bridge interface is not fully transparent
2. [eits #190700255] VMG4005-B60A - Even if ACS certificate validation is disabled device still performs certificate validation.
3. [eits #190700673] Not possible to disable portmirror function VMG 4005-B50A
4. [eits #190700751] VMG4005-B60A - Blocking of some L2CP messages
5. [eits #190700611] L2CP transparent over the bridge VMG 4005-B50A
6. [eits #190700763] VMG4005-B60A - Local management isolation
7. [eits #190700936] VMG4005-B60A - RPC call
8. [eits #190700937] VMG4005-B60A - RPC call (attributes)
9. [eits #190701013] VMG4005-B60A - There are wrong values in some TR069 data model parameters

Modifications in 5.15(ABQA.0)b3

[FEATURE ENHANCEMENT]

1. [eits #190700344] VMG4005-B60A - request to change default settings (disabling of "Validate ACS certificate")

[BUG FIX]

1. [eits #190400800] VMG4005-B60A - Bridge interface is not fully transparent
2. [eits #190400809] VMG4005-B60A - insufficient physical layer performance
3. [eits #190600822] GUI has no info show DSL bonding status
4. [eits #190700093] 35b info does not display correctly in xDSL Statistics
5. [eits #190700311] ACS service works not as expected VMG 4005-B50A
6. [eits #190700309] NTP and DNS service works not via MGMT VLAN 4092 Prio 2 VMG 4005-B50A
7. [kernel] Multiple TCP-based remote denial of service vulnerabilities (fixed about CVE-2019-11477, CVE-2019-11478, CVE-2019-11479)

Modifications in 5.15(ABQA.0)b2

[FEATURE ENHANCEMENT]

1. [eits #190600093] VMG4005-B60A - WAN MAC address changing
2. [eits #190600331] VMG4005-B60A - QoS, swapped CoS priorities
3. [eits #190600485] There is DNS server running
4. [eits #190600392] VMG4005-B60A - request to change default settings
5. [eits #190600435] VMG4005-B60A - EOC register
6. [eits #190600295] VMG4005-B60A - DNS server running

[BUG FIX]

1. [eits #190500524] VMG4005-B60A – WebGUI
2. [eits #190600483] There are functionless leafs in TR069 data model (e.g. WiFi)
3. [eits #190600484] There are wrong values in some TR069 data model parameters
4. [eits #190600337] VMG4005-B60A - Device management becomes unusable after call TR069 RPC GetParameterAttributes

Modifications in 5.15(ABQA.0)b1

[FEATURE ENHANCEMENT]

1. [eits #190500522] Disable both TCP port 161 and port 38400 (UPnP)
2. [eits #190500526] Provide document of CLI commands
3. [TR000185-4] [Req 2.1.5 2.1.8] Support Ethctl command and Ethernet UNI page
4. [TR000185-4] [Req 2.1.7 4.1.2] Support JUMBO Frame
5. [TR000185-4] [Req 4.1.1] Support transparent data transmission.
6. [TR000185-4] [Req 4.3.2] CPE could be able to be set up not to learn any source MAC address of specific interfaces
7. [TR000185-4] [Req 6.1.3.3] [GUI_vue] ADSL,VDSL--Dynamic IPv4 configuration
8. [TR000185-4] [Req 6.2.1] Local management via Ethernet UNI
9. [TR000185-4] [Req 6.3.4] CPE could reply LAN interface's content of 'Mac Address Table' including information of used

vlan

10. [TR000185-5] [Req 2.1.3] Additional device status information
11. [TR000185-5] [Req 2.2.13.2] [User accounts] The Demarcation Device shall permit to define for each user account allowed management protocol(s) and input interface(s).
12. [TR000185-5] [Req 3.2.1] HTTP/HTTPS remote access enable to the Demarcation Device
13. [TR000185-5] [Req 3.2.2] HTTP/HTTPS local access disable to the Demarcation Device

[BUG FIX]

1. [eits # 190400687] The System Info page does not show any values
2. [eits # 190500524] When internet connection is unavailable, it slows down the loading of the WebGUI.
3. [eits # 190400809] Insufficient physical layer performance
4. [eits # 190400797] Low throughput with bridge mode pure IPv4 traffic .
5. [eits # 190400637] VMG4005-B60A Port Mirror fail
6. [eits # 190400800] Bridge interface is not fully transparent
7. [eits # 190400712] Unstable remote access to Web GUI