

EX5501-B0 Generic

Firmware Release Note

V5.17(ABRY.3.2)C0

Date: NOV 29, 2022

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Revision History

Date	Release	Author	Description
2019/05/31	1.0	GuanHong Chen	FW release for V5.15(ABRY.0)b1
2019/07/08	1.1	GuanHong Chen	FW release for V5.15(ABRY.0)b2
2019/08/07	1.2	Justin Lin	FW release for V5.15(ABRY.0)b3
2019/09/11	1.3	ChaoChengDo	FW release for V5.15(ABRY.0)b4
2019/11/15	1.4	Zhongde Lai	FW release for V5.15(ABRY.0)b5
2019/12/04	1.5	Zhongde Lai	FW release for V5.15(ABRY.0)b6
2019/12/06	1.6	Zhongde Lai	FW release for V5.15(ABRY.0)C0
2020/03/13	2.0	Zhongde Lai	FW release for V5.15(ABRY.1)b1
2020/04/30	2.1	Zhongde Lai	FW release for V5.15(ABRY.1)b2
2020/06/10	2.2	Zhongde Lai	FW release for V5.15(ABRY.1)b3
2020/07/17	2.3	Zhongde Lai	FW release for V5.15(ABRY.1)b4
2020/08/11	2.4	Zhongde Lai	FW release for V5.15(ABRY.1)b5
2020/09/11	2.5	PeiPing Chen	FW release for V5.15(ABRY.1)b6
2021/01/29	2.6	PeiPing Chen	FW release for V5.15(ABRY.1)b7

2021/01/29	2.7	PeiPing Chen	FW release for V5.15(ABRY.1)C0
2021/02/26	3.1	PeiPing Chen	FW release for V5.17(ABRY.2)b1
2021/04/23	3.2	PeiPing Chen	FW release for V5.17(ABRY.2)b2
2021/05/21	3.3	PeiPing Chen	FW release for V5.17(ABRY.2)b3
2021/06/25	3.4	PeiPing Chen	FW release for V5.17(ABRY.2)b4
2021/08/06	3.5	PeiPing Chen	FW release for V5.17(ABRY.2)b5
2021/10/19	3.6	PeiPing Chen	FW release for V5.17(ABRY.2)b6
2021/11/09	3.7	PeiPing Chen	FW release for V5.17(ABRY.2)b7
2021/11/24	3.8	PeiPing Chen	FW release for V5.17(ABRY.2)b8
2021/11/24	3.9	PeiPing Chen	FW release for V5.17(ABRY.2)C0
2021/10/15	4.0	PeiPing Chen	FW release for V5.17(ABRY.3)b1
2021/12/29	4.1	PeiPing Chen	FW release for V5.17(ABRY.3)b2
2022/03/10	4.2	ChaoCheng Do	FW release for V5.17(ABRY.3)b3
2022/04/22	4.3	PeiPing Chen	FW release for V5.17(ABRY.3)b4
2022/05/13	4.4	Isaac Tarn	FW release for V5.17(ABRY.3)b5
2022/11/29	4.5	Isaac Tarn	FW release for V5.17(ABRY.3.2)b1
2022/11/29	4.6	Isaac Tarn	FW release for V5.17(ABRY.3.2)C0

EX5501-B0 Generic V5.17(ABRY.3.1)C0 Release Note

Date:NOV 29, 2022

Supported Platforms:

Zyxel EX5501-B0

Versions:

Bootbase version : V1.63 | 10/14/2021 11:05:14

Firmware version : V5.17(ABRY.3.2)C0

Kernel version: 4.1.52

BSP version: 502L07p2

WLAN code version: 17.10.157.60

3G WWAN package version: 1.24

Notes:

Public Domain Software Announcements

Open Source Used In Product	Version	From (Source)	License Terms	Modified / Used
atftp	0.7.1	https://sourceforge.net/projects/atftp/	GPLv2	Modified
bridge-Utils	1.5	https://git.kernel.org/pub/scm/linux/kernel/git/she-mming/bridge-utils.git/	GPLv2	Modified
busybox	1.20.1	https://busybox.net/	GPLv2	Modified

clinkc	2.4	https://sourceforge.net/projects/clinkc/	BSD	Modified
conntrack-tools	1.4.3	https://git.netfilter.org/conntrack-tools/	GPLv2	Used
dnsmasq	2.78	http://www.thekelleys.org.uk/dnsmasq/doc.html	GPLv2/GPLv3	Modified
dropbear	2018.76	https://github.com/mkj/dropbear	MIT	Modified
ebtables	2.0.10-4	https://git.netfilter.org/ebtables/	GPLv2	Modified
eventlog	0.2.10	https://github.com/balabit/eventlog	BSD	Used
expat	1.95.8	https://github.com/libexpat/libexpat	MIT	Used
ez-ipupdate	3.0.11b8	http://ez-ipupdate.com/	GPLv2	Modified
gettext	0.16	http://www.gnu.org/software/gettext/	GPLv2	Used
glib	2.37.7	http://www.gtk.org/	LGPLv2	Used
iproute2	2.6.33	https://github.com/shemminger/iproute2	GPLv2	Modified
iptables	1.4.21	https://git.netfilter.org/iptables/	GPLv2	Modified
jpegsrsrc	v9a	http://www.iijg.org/	IJG	Used
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/	LGPLv2	Modified
libnetfilter_conntrack	1.0.4	https://git.netfilter.org/libnetfilter_conntrack/	GPLv2	Used
libnetfilter_queue	1.0.2	https://git.netfilter.org/libnetfilter_queue/	GPLv2	Used
libnfnethlink	1.0.1	https://git.netfilter.org/libnfnethlink/	GPLv2	Used
libnl-tiny	0.1	https://github.com/openwrt/openwrt/tree/master/package/libs/libnl-tiny	GPLv2/LGPLv2.1	Used
libpcap	1.1.1	www.tcpdump.org	BSD	Used
libtool	2.4	http://www.gnu.org/software/libtool/	GPLv2	Used
libusb	1.0.9	https://sourceforge.net/projects/libusb/	LGPL 2.1	Used
Linux/Arm Kernel	4.1.52			Modified
logrotate	3.7.1	https://launchpad.net/ubuntu/hardy/i386/logrotate/	GPLv2	Modified

mailsend	1.17b15	https://github.com/muquit/mailsend/	BSD	Modified
ncurses	5.7	http://ftp.gnu.org/pub/gnu/ncurses/	MIT	Modified
net-snmp	5.8	http://www.net-snmp.org/	ISC/BSD	Modified
ntfs-3g	2013.1.13	http://ntfs-3g.org	GPLv2/LGPLv2	Used
ntpclient	2007_365	http://doolittle.icarus.com/ntpclient/	GPLv2	Modified
openssl	1.1.1n	http://www.openssl.org	OpenSSL	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/rtop.html	GPLv2	Used
samba	3.6.25	http://www.samba.org/samba/	GPLv3	Modified
sqlite	3.6.23.1	http://www.sqlite.org/	Public Domain License	Used
syslog-ng	2.0.10	https://github.com/balabit/syslog-ng	GPLv2	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
util-linux	2.21.2	https://github.com/karelzak/util-linux/	GPLv2	Used
wide-dhcpv6	20080615	https://sourceforge.net/projects/wide-dhcpv6/	BSD	Modified
zebra	0.93a	http://www.zebra.org/	GPLv2/LGPLv2	Used
zlib	1.2.7	https://github.com/madler/zlib	zlib	Used

Known issues

Modules	Issue	Risk Impact Information
WLAN	[#144426] [Wireless] Using Android phone and iPhone can't connect DUT via wireless 2.4G/5G QR code. (Security mode=WPA3)	

Modifications in 5.17(ABRY.3.2)C0

● Feature Enhancement

Modified Modules	Features Enhancement List
FCS	FCS firmware released

Modifications in 5.17(ABRY.3.2)b1

● Bug Fixed

Modified Modules	Bug Fixed List
Security	[#177521] [Security] Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability in NR7101
Security	[#179465] [Security] Zyxel-SI-1441 [Vulnerability] Hidden SSID and symbolic Links in ftpd of EX5501
Security	[#178845] [Security] [Security report 4.2.9] Unsafe User-Controlled Configuration Data (SMB)

Modifications in 5.17(ABRY.3)b5

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	[#166326] [OPAL Generic] GUI translation_ES_NL

● Bug Fixed

Modified Modules	Bug Fixed List
Security	[#166005] [Security] CPE happen "Invalid memory segment access" after Create Certificate Request

Modifications in 5.17(ABRY.3)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
WAN	[#164015][eITS #220301711] Allow HTTP/HTTPS access via IPoE interface.
WIFI	[#159699][eITS #220100035] EX5501, Device.WiFi.MultiAP.
Security	[#164360][Vulnerability] Infinite loop in BN_mod_sqrt() of OpenSSL when parsing certificates.

● Bug Fixed

Modified Modules	Bug Fixed List
WIFI	[#164007][eITS #220301708] Device sets EasyMesh ON and OFF when X_ZYXEL_EXT.EasyMesh.Enable is disabled.
	[#164004][eITS #220301715] The TR69 X_ZYXEL_Wireless_Mode for 5Ghz Band-AX Mixed mode value is not consistent.
	[#163020][WLAN] 5G Guest SSID switch button doesn't link with 2.4G Guest SSID behavior when onessid is enable.
Security	[#164250][eITS #220400041] VMG8825, cleartext storage of information.

Modifications in 5.17(ABRY.3)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
FTP	[#160480][OPAL Generic] Disable the FTP function
WLAN	[#156352][OPAL Generic] Change WPS button trigger condition

DHCP	[#161466][eITS #220100965]Support LAN DHCP option 43 suboptions to forward acs url
	[#162091][eITS #220300140] AX7501, Requested support for lan dhcp option 43 suboptions using cwmp to forward acs url
TR069	[#159523][eITS #211200832] Please sent TR069 cnonce in hexadecimal format
VoIP	[#153060][eITS #210701730]AX7501 - [ZAB-4] [SIP] Call hold does not work - medium
	[#152599][eITS #210701727]AX7501 - [ZAB-7] [SIP] Call is not executed when pound key is present - Medium
	[#156443][eITS #210601569]Call Hold does not work
GUI	[#162045][OPAL Generic] Portuguese GUI translation
	[#162101][OPAL Generic] French GUI translation
	[#162310][OPAL Generic] Italian GUI translation

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	[#156808][Wireless] DUT 5G channel on Band 2 (60), smart phone can't connect
VoIP	[#152404][eITS #210701735]AX7501 - [ZAB-1] [SIP] User-agent format does not follow standard - low

Modifications in 5.17(ABRY.3)b2

● Bug Fixed

Modified Modules	Bug Fixed List
System	[#157516][System] Port mirror page can't display monitor interface list when no wan connect.
Security	[#146975][Security] L2TP VPN can't work on Multi-WAN interface.
TR-098	[#156612][TR-098] Account parameters are missing.
GUI	[#156514][GUI] In bridge <-> routing mode, IPv6 DHCP behavior does not follow IPv4 DHCP.

TR069	[#155173][eITS 210901346] The TR69 X_ZYXEL_Wireless_Mode for 5Ghz Band AX Mixed mode acceptable value is not consistent TR-181: Device.WiFi.Radio.{i}.OperatingStandards TR-098: InternetGatewayDevice.LANDevice.{i}.WLANConfiguration.{i}.X_ZYXEL_OperatingStandards
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Modifications in 5.17(ABRY.3)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
LED	[#132874][eITS#200701283] EX5501, LED control
Port Forwarding	[#145239][eITS#210200785] Question: PCP (Port Control Protocol) support
ICMP	[#149438][eITS#210600461] EX5401, disable or optimize client check
F-secure	[#149820][eITS#210600835] EX5501, disable F-secure
Routing	[#150626][eITS#210600904][230757] AX7501-B0 / RA-MTU
GUI	[#147975][OPAL Generic] Media Server GUI Change
	[#147255][eITS#210401527] EMG3525 Configure available cards in web-gui

● Bug Fixed

Modified Modules	Bug Fixed List
TR-069	[#154485][eITS#210900863] EX5501, Value for StaticAddressNumberOfEntries does not survive boot
IPv6	[#150913][eITS#210601930][NetCom_BW] DS-Lite setting missing Automatically configured by DHCPc PC DX5401-B0

Modifications in 5.17(ABRY.2)C0

● Feature Enhancement

Modified Modules	Features Enhancement List
FCS	FCS firmware released

Modifications in 5.17(ABRY.2)b8

● Bug Fixed

Modified Modules	Bug Fixed List
TR-069	[#157272][eITS #211001429][ASELCOM][ONTITEL] ACS problems with EX5501
DHCPv6	[#157439][eITS #211000436][Studerus] IPv6 neighbor not working AX 7501-B0

Modifications in 5.17(ABRY.2)b7

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	[#156039] EX5501, acsd2 not running in 2b6_D0

Modifications in 5.17(ABRY.2)b6

● Bug Fixed

Modified Modules	Bug Fixed List
F-Secure	[#149820][eITS#210600835] EX5501. disable F-secure
TR069	[#154485][eITS#210900863] EX5501, Value for StaticAddressNumberOfEntries does not survive boot

Modifications in 5.17(ABRY.2)b5

● Bug Fixed

Modified Modules	Bug Fixed List
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WLAN MESH	[#152094][eITS #210701811]AX7501, mesh not enabled when enabling via gui
TR069	[#151496][eITS #210301420][Lünecom] TR069 ACS get parameter / refresh objekt error AX 7501-B0

Modifications in 5.17(ABRY.2)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
WAN	[#149486][#210401267][#210401267][NYNEX] IPv4 DHCP client with 32 MASK works not AX7501-B0

Modifications in 5.17(ABRY.2)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	[#148279]Multi-language GUI for OPAL generic GW + Extender
TR069	[#148406][#210500049][Digimobil] XGSPON- Apply as Default Gateway for IPV6

● Bug Fixed

Modified Modules	Bug Fixed List
Security	[#143384][Vulnerability] BRCM "DeAgg & DeFrag Attacks

Modifications in 5.17(ABRY.2)b2

● Bug Fixed

Modified Modules	Bug Fixed List
System	[#146223][#210200611]EX5501, MAC offset changed after upgrade
Configuration	[#134885][# 200801911] EX5501, modify SP Domain

Security	[#146987][#210100668][Vulnerability] Vulnerabilities in Multiple Zyxel Equipment from Sec consult => issue 11
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Modifications in 5.17(ABRY.2)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
TR-069	[#201001159][#137761][#137762][Feature]EX5501, support for Lifemote agent
	[#201101346][#139580]EX5501, firmware-download url does not follow routing path
Parental control	[#143397][OPAL]Change time format 00:00-23:59 in Parental control page.
System	[#143457][OPAL Generic]Key Feature - F-Secure 2.3
	[#143458][#143248][OPAL Generic]Key Feature - ZyEE Container
	[#143464][OPAL Generic]Key Feature - L2TP (default disabled)
	[#143779][OPAL Generic]Key Feature - MAP-T/MAP-E
WLAN	[#143252][OPAL Generic]Upgrade WLAN driver to 17.10.121.37
Configuration	[#210200336][#143165]Quickline - EX5501-B0 -- VLAN Support for CityFibre Network

● Bug Fixed

Modified Modules	Bug Fixed List
Security	[Vulnerability]UPnP protocol can be abused to perform DDoS and/or data exfiltration via SUBSCRIBE capability.
	[eITS #200800711][Vulnerability]CVE-2019-11358 vulnerability - update jQuery to "3.5.1".
	[#210100668][Vulnerability] Vulnerabilities in Multiple Zyxel Equipment from Sec consult => issue 1,2,4,5, 7~10
	[#210100667][Vulnerability]Dnsmasq multiple vulnerabilities (DNSPooq)
	[Vulnerability][CVE-2020-1971][Openssl]Correctly compare EdiPartyName in GENERAL_NAME_cmp()

TR-069	[#201000011][#136730]EX5501, can't set DataModelSpec
Configuration	[#200701348][#135223]EX5501-B0 - V5.15(ABRY.0)C0 remote access not working
	[#200700852][#132302]EX5501, config backup-restore
Interface Group	[#200800057][#138519]EX5501-B0_No option of PPPoE on Quick Start Wizard
GUI	[#200800056][#135061]EX5501-B0_Unable to access the Web Gui after IP alias added
Remote MGMT	[#200500517][#128713]EX5501, dropbear not running after reboot

Modifications in 5.15(ABRY.1)C0

● Feature Enhancement

Modified Modules	Features Enhancement List
FCS	FCS firmware released

Modifications in 5.15(ABRY.1)b7

● Feature Enhancement

Modified Modules	Features Enhancement List
Routing	[BUGFIX][#140034][EX5501-B0][#201100997] EX5501, VPN issues

● Bug Fixed

Modified Modules	Bug Fixed List

● Issues have been enhanced

Modified Modules	Bug Fixed List
System	[BUGFIX][EX5501-B0][#141175][#210100097] - EX5501, sporadic crash-boot

Modifications in 5.15(ABRY.1)b6

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
MESH	[#200900090] - EX5501, powered off/disconnected repeater still shown as active

Modifications in 5.15(ABRY.1)b5

● Feature Enhancement

Modified Modules	Features Enhancement List
WAN	[eITS#200700865][#132260]EX5501, add 2.5G LAN-port to ccWAN

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	[eITS#200701017][#132439]EX5501, SSID hidden after upgrade

Modifications in 5.15(ABRY.1)b4

● Feature Enhancement

Modified Modules	Features Enhancement List

Modifications in 5.15(ABRY.1)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	Default wifi key reminder

Modifications in 5.15(ABRY.1)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
SYSTEM	Feature enhanced about Remote Access Privilege
	Support Intel 2.5G phy FW upgrade method
Cli	Config Default password(root, admin, psk) by AT command

Modifications in 5.15(ABRY.1)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
TR-069	[eITS#191200210][#119288]OPAL Support Device.ManagementServer.InformParameter.{i}.
SYSTEM	[eITS#191101310][#119060]OPAL Static allocation of MAC Offset
	[eITS#191200226][#119284]EX5501 Support Energy-Efficient-Ethernet per port in TR-181 data-model
	[eITS#191200262][#119456]OPAL Support user_startup_parameters.sh

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	[eITS#191200777][#120277]EX5501 No QR-code in GUI when using WPA3-SAE/WPA2-PSK or WPA3-PSK
TR-069	[eITS#191200213][#123136]EX5501 SPV

	Device.DeviceInfo.ProvisioningCode returns status=1
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Modifications in 5.15(ABRY.0)C0

● Feature Enhancement

Modified Modules	Features Enhancement List
FCS	First FCS firmware released

Modifications in 5.15(ABRY.0)b6

● Bug Fixed

Modified Modules	Bug Fixed List
SYSTEM	[BUGFIX][BROADCOM][CS9088367] Wrong WLAN packet drop in case of high congestion which cause runner stuck

Modifications in 5.15(ABRY.0)b5

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	[eITS #190900380][#114118]EX5501 How to remove a Card from the WEB-GUI
SYSTEM	[eITS #190900791][#114471]EX5501 Support Energy-Efficient-Ethernet in TR-181 data-model ● Device.X_ZYXEL_Power_Management.EEE
	[eITS #190900790][#114470]EX5501 Disable eee on all Ethernet-ports
	[eITS #190900325][#114019]EX5501 Device.X_ZYXEL_LoginCfg.LogGp.i.Account.i.RemoteAccessPrivilege doesn't work
LED	[eITS #190900836][#114626]EX5501 LED-behavior when connected to 100Mbit on WAN

● Bug Fixed

Modified Modules	Bug Fixed List
SYSTEM	[eITS #191001176][#116663]EX5501 zcfg_msg.c:235, _msg_rcv(), WARNING: EID = 15, select() wait forever
	[eITS #190900429][#114051]EX5501 Formatting-error in default rom-file
WLAN	[eITS #190600865][#116633]EX5501 Configuration-parameter for length of auto-generated WiFi password
	[eITS #190900951][#114882]EX5501 Change Wi-Fi settings via Wi-Fi-card
Security	[eITS #190800137][#111795]IZyShell Privilege Escalation [privesc] - P1
LAN	[eITS #190801234][#114617]EX5501 LAN-port Bytes Sent counter in GUI stops at uint32 max value

● Issue Has Been Enhanced

Modified Modules	Bug Fixed List
SYSTEM	[eITS #190801106][#112930]EX5501 Ethernet IOP

Modifications in 5.15(ABRY.0)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
SYSTEM	[eITS #190600145]EX5501 Get complete data-model
WLAN	[eITS #190600635][#109414]EX5501 Parameter to black-list characters from auto-generated WiFi Passphrase
	[eITS #190600289][#112307]EX5501 Support WPA3

● Bug Fixed

Modified Modules	Bug Fixed List
IGMP	[eITS #190800989][#112874]Multiple STB's watching same

	multicast-channel fails
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Modifications in 5.15(ABRY.0)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
Cli	[eITS #190600540][#108492]EX5501 Add commands to busybox
WLAN	[#190600600]EX5501 Config-parameter for 5GHz SSID suffix
	[eITS #190700108][#109595]EX5501 Parameter to control case for auto-generated Wi-Fi passphrase
System	[eITS #190600832][#109358]EX5501 Still using old algorithm for generating supervisor-password

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.15(ABRY.0)b2

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.15(ABRY.0)b1

● Feature Enhancement

Modified	Features Enhancement List
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Modules	

● Bug Fixed

Modified Modules	Bug Fixed List