

**DX3301-T0 Generic
EX3301-T0 Generic
DX3300-T0 Generic
EX3300-T0 Generic**

Firmware Release Note

V5.50(ABVY.1)C0

Date: Jul. 14, 2021

Author: Ralph Chien

Reviewer:

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Revision History

Date	Release	Author	Description
2020/06/19	1.0	GuanHong Chen	FW release for V5.50(ABVY.0)b1
2020/08/14	1.1	GuanHong Chen	FW release for V5.50(ABVY.0)b2
2020/09/30	1.2	GuanHong Chen	FW release for V5.50(ABVY.0)b3
2020/10/22	1.3	GuanHong Chen	FW release for V5.50(ABVY.0)b4
2020/11/12	1.4	GuanHong Chen	FW release for V5.50(ABVY.0)b5
2020/12/11	1.5	Ralph Chien	FW release for V5.50(ABVY.1)b1
2021/01/22	1.6	Ralph Chien	FW release for V5.50(ABVY.1)b2
2021/03/18	1.7	Ralph Chien	FW release for V5.50(ABVY.1)b3
2021/03/22	1.8	Ralph Chien	FW release for V5.50(ABVY.1)b4
2021/04/06	1.9	Ralph Chien	FW release for V5.50(ABVY.1)b5
2021/06/18	2.0	Ralph Chien	FW release for V5.50(ABVY.1)b6
2021/07/14	2.1	Ralph Chien	FW release for V5.50(ABVY.1)C0

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Date: Jul. 14, 2021

Supported Platforms:

Zyxel DX3301-T0

Zyxel EX3301-T0 (DX3301-T0 remove VD WAN)

Zyxel DX3300-T0(DX3301-T0 remove VoIP)

Zyxel EX3300-T0(DX3301-T0 remove VD WAN and VoIP)

Versions:

Bootbase version : V1.43 | 12/11/2020 14:34:42

Firmware version : V5.50(ABVY.1)C0

Kernel version: 3.18.21

DSL code version: V5.12.23.0_0522

WLAN code version: MT7915D 7.1.0.2

3G dongle WWAN package version: 1.20

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/shemminger/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
jpegsrcc	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
libnftnl	1.0.1	https://git.netfilter.org/libnftnl/	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
libstrophe	0.10.0	https://github.com/strophe/libstrophe	GPLv2	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	5.7.2	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	1.1.1b	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/rltop.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

Modifications in V5.50(ABVY.1)C0

Base on V5.50(ABVY.1)b6 to release V5.50(ABVY.1)C0 FCS

Modifications in V5.50(ABVY.1)b6

[FEATURE ENHANCEMENT]

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

[BUG FIX]

1. [eits #210500507][EX3300-T0] Cannot detect Wifi 5Ghz
2. [eits #201201049][DX3301-T0] WiFi upload throughput cannot reached 800 Mb/s
3. [Security] DeAgg & DeFrag Attacks
4. [Stress] DUT happens call trace right after config zypark setting and multiple wifi client connect.
5. [MPro Mesh] ZyPark Multy Pro stress test environment, it will cause controller hang on.
6. [MPro Mesh] DX3301 and WX3100 WiFi Backhaul throughput test failed.
7. [MPro Mesh] AP roaming, The mobile phone will be displayed as "Stale = Yes" after moving to layer 2 extender

Modifications in V5.50(ABVY.1)b5

[BUG FIX]

8. [eits #210400147][LAN] IPV6 showing NA _LAN can't accept IPv6 addr
9. [eits #210400148][WAN] IPV6 showing NA _After release/renew PPP connection, CPE has IPv6 WAN IP but GUI show N/A
10. [eits #210400146][WAN] IPV6 showing NA _WAN can't accept DNSv6
11. [MPro Mesh] GUI or TR disable MESH will cause the extender signal LED to go out
12. [MPro Mesh] Wifi security key will display plain text on console message.
13. [MPro Mesh] ZyPark Multy Pro stress test environment, it will cause controller hang on
14. [MPro Mesh] All Guest wifi are disabled but it still display up in Steering status page.
15. [MPro Mesh_Agent] Client detail information (WiFi channel, Max Speed and RSSI) always display "updating" when client connect controller or

extender2.4G wifi

16. [MPro Mesh_Agent] Some clients change to APP Guest Devices region even the Guest WiFi is disable
17. [WLAN] The default setting of WLAN security mode should be changed to WPA3-SAE/WPA2-PSK

Modifications in V5.50(ABVY.1)b4

[BUG FIX]

1. [MPro Mesh] Modify DX3301 wifi setting, it will cause zyMAPSteer daemon disapper.

Modifications in V5.50(ABVY.1)b3

[BUG FIX]

1. [MPro Mesh_Agent] During testing APP normal function sometimes "ZyMAPSteer" daemon disappear
2. [MPro Mesh_Agent] EX3301 add Mesh (extender) failed
3. [MPro Mesh] Onboarding AP_Agent first then onboarding RP_Agent, DX3301 occurs call trace and p1905_managerd_init fail. And mesh topology will display empty.
4. [MPro Mesh_Agent]Disconnect some end devices over 10 minutes, but they are still keep in Devices list page via online status
5. [MPro Mesh_Agent] Some clients change to APP Guest Devices region even the Guest WiFi is disable
6. [MPro Mesh] All Guest wifi are disabled but it still display up in Mesh topology(zyctl -a) & Steering status page.
7. [MPro Mesh] AP roaming, The information will disappear after mobile phone is moved to the extender.
8. [eits #210200062] [DX3301-T0] Client connect WiFi 2.4 GHz has issue
9. [Security] Add parental control rule, DUT will show WAN PC on client list
10. [Vulnerability] Critical security vulnerabilities.
11. [LED] Turn off 2.4G/5G WLAN, 2.4G LED will remain solid green
12. [#210100667] Dnsmasq multiple vulnerabilities (DNSPooq)

Modifications in V5.50(ABVY.1)b2

[FEATURE ENHANCEMENT]

1. Wifi reminder enable.

2. Support Gen2 for parent control function

[BUG FIX]

13. [System] After upgrading FW from "Remote Privilege" not supported FW, "Remote Privilege" will change to LAN only
14. [WAN] The portmirror page have duplicate interface.
15. [WLAN] Check and uncheck Radom Password in card page -> WiFi Settings page, DUT will empty the WiFi Password, if click Save button in this time DUT will generate an unknown random WiFi Password and save it.
16. [WAN] IPv6 Only mode, the System Info card page of VDSL WAN show connection down. (AD/VD/Eth)
17. [WAN] When WAN is Bridge mode, WAN Information show incorrectly on system info page.
18. [WLAN] The default setting of WLAN security mode should be changed to WPA3-SAE/WPA2-PSK
19. [TR-069] The content of IGD.DeviceSummary includes xDSL information for EX model.
20. [TR-069] The content of IGD.DeviceInfo.Description includes xDSL information for EX model.
21. [WAN] Config static IPv6 wan ip will cause GUI display error.
22. [System] Enable button of ZlogSetting function can't be enabled
23. [VLAN auto hunt] The VLAN auto hunt can not works at IPoE/PPPoE WAN.
24. [LAN] LAN PC cannot ping and Login DUT with Link Local Address Type as Manual.
25. [WLAN] Suggest to change the description of wireless general page when security is support WPA3-SAE/WPA2-PSK.

Modifications in V5.50(ABVY.1)b1

[FEATURE ENHANCEMENT]

1. Support EasyMesh.

[BUG FIX]

Modifications in V5.50(ABVY.0)b5

[FEATURE ENHANCEMENT]

[BUG FIX]

1. Add hwdep co-fw feature for DX/EX3301-T0_Generic
2. Refine co-fw mechanism for non-VoIP Projects

Modifications in V5.50(ABVY.0)b4

[FEATURE ENHANCEMENT]

[BUG FIX]

1. [VoIP] VoIP Stress (Make continuous call via Abacus 100) happen 3 times call trace
2. [VoIP] After overnight test, the call drop should not occurs
3. [Wireless] WMM of SSID1~4 cannot disable.
4. [VoIP] 3-Way-Conference happen call trace and reboot.
5. [Wireless] The 5G Tx thput is less than b2, (QAM is 64)
6. [Wireless] Use the phone to connect DUT, go to the WLAN Station Status page to check Rate (Mbps), the rate super low.
7. [WPS] The system call trace without reboot during test WPS method3.

Modifications in V5.50(ABVY.0)b3

[FEATURE ENHANCEMENT]

[BUG FIX]

1. [GUI] By default ,DUT is no IGMP/MLD function.

Modifications in V5.50(ABVY.0)b2

[FEATURE ENHANCEMENT]

[BUG FIX]

1. [LAN] LAN IPv6 Prefix change from "Delegate Prefix" to "Static", LAN will display old address.
2. [Wireless] 5G Bandwidth should right.
3. [Wireless] WMM of SSID1~4 cannot disable.
4. [Wireless] Use care page to disable 5G more AP, wifi client still can connect it.
5. [Wireless] Modify 2.4G SSID, 5G client can't link down.
6. [USB] CPE doesn't support MaxProcesses for SAMBA.

7. [GUI] Go to the connection status page and to set wifi setting, Disable Enable 2.4G or 5G Wifi, GUI will still continuous loading.
8. [GUI] By default ,DUT is no IGMP/MLD function
9. [DST] GUI default settings aren't matched with default setting table.
10. [WAN] In PPPoA mode, system info does not display correct IPv6 information.
11. [WAN] PPPoE Up time always show "0 days 0 hours 0 minutes" when 3G WWAN up.
12. [WAN] DSL Link Mode – ADSL2 Rx link rate is too low and Annex M cannot be disabled.
13. [PPPoE] DUT suddenly happen call trace and reboot after PPPoE - On Demand idle timeout.
14. [System] Firmware Kernal checksum did not match with release note.
15. Can't login to GUI if replace supervisor/admig password from backup config file.
16. [VoIP] It should not stopped when DUT during 72 hour VoIP stress test via Abacus.
17. [VoIP] The GUI should support VoIP (Early Media , Music On Hold , IVR) function.
18. [TR-069] Upload log via ACS server will return 9016 fault code.
19. [TR-069] Reboot + change PPP username/password via ACS server will happen call trace.

Modifications in V5.50(ABVY.0)b1

First firmware release

[FEATURE ENHACEMENT]

[BUG FIX]