

# **WX3100-T0 Generic**

Firmware Release Note

V5.50(ABVL.0)C0

Date: Sep 10, 2021

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Reviewer:

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## Revision History

Date	Release	Author	Description
2020/08/06	1.0	Linda Huang	FW release for V5.50(ABVL.0)b1
2020/08/28	1.1	Joanna Su	FW release for V5.50(ABVL.0)b2
2020/10/12	1.2	Joanna Su	FW release for V5.50(ABVL.0)b3
2020/11/13	1.3	Joanna Su	FW release for V5.50(ABVL.0)b4
2021/01/28	1.4	Joanna Su	FW release for V5.50(ABVL.0)b5
2021/03/08	1.5	Joanna Su	FW release for V5.50(ABVL.0)b6
2021/05/07	1.6	Joanna Su	FW release for V5.50(ABVL.0)b7
2021/06/10	1.7	Joanna Su	FW release for V5.50(ABVL.0)b8
2021/07/30	1.8	Joanna Su	FW release for V5.50(ABVL.0)b9
2021/08/27	1.9	Joanna Su	FW release for V5.50(ABVL.0)b10
2021/09/10	1.10	Joanna Su	FW release for V5.50(ABVL.0)C0

## **WX3100-T0 Generic V5.50(ABVL.0)C0 Release Note**

Date: Sep 10, 2021

### **Supported Platforms:**

Zyxel WX3100-T0

### **Versions:**

Bootbase version : V1.46 | 05/07/2021 11:40:00

Firmware version : V5.50(ABVL.0)C0

Kernel version: 3.18.21

WLAN code version: 7.1.0.2

app-agent: 3.0

netprobe: 3.0

zy1905: 3.0

### **Notes:**

## Public Domain Software Announcements

Open Source Used In Product	Version	From (Source)	License Terms	Modified / Used
atftp	0.7.1	<a href="https://sourceforge.net/projects/atftp/">https://sourceforge.net/projects/atftp/</a>	GPLv2	Modified
bridge-Utils	1.0.6	<a href="https://git.kernel.org/pub/scm/linux/kernel/git/shemminger/bridge-utils.git/">https://git.kernel.org/pub/scm/linux/kernel/git/shemminger/bridge-utils.git/</a>	GPLv2	Modified
busybox	1.20.1	<a href="https://busybox.net/">https://busybox.net/</a>	GPLv2	Modified
clinkc	2.4	<a href="https://sourceforge.net/projects/clinkc/">https://sourceforge.net/projects/clinkc/</a>	BSD	Modified
conntrack-tools	1.4.3	<a href="https://git.netfilter.org/conntrack-tools/">https://git.netfilter.org/conntrack-tools/</a>	GPLv2	Used
dropbear	2018.76	<a href="https://github.com/mkj/dropbear">https://github.com/mkj/dropbear</a>	MIT	Modified
ebtables	2.0.8-2	<a href="https://git.netfilter.org/ebtables/">https://git.netfilter.org/ebtables/</a>	GPLv2	Modified
eventlog	0.2.10	<a href="https://github.com/balabit/eventlog">https://github.com/balabit/eventlog</a>	BSD	Used
expat	1.95.8	<a href="https://github.com/libexpat/libexpat">https://github.com/libexpat/libexpat</a>	MIT	Used
ez-ipupdate	3.0.11b8	<a href="http://ez-ipupdate.com/">http://ez-ipupdate.com/</a>	GPLv2	Modified
gettext	0.16.1	<a href="http://www.gnu.org/software/gettext/">http://www.gnu.org/software/gettext/</a>	GPLv2	Used
glib	2.37.7	<a href="http://www.gtk.org/">http://www.gtk.org/</a>	LGPLv2	Used
iproute2	2.6.33	<a href="https://github.com/shemminger/iproute2">https://github.com/shemminger/iproute2</a>	GPLv2	Modified
iptables	1.4.10	<a href="https://git.netfilter.org/iptables/">https://git.netfilter.org/iptables/</a>	GPLv2	Modified
jpegsrvc	v9a	<a href="http://www.iijg.org/">http://www.iijg.org/</a>	IJG	Used
json-c	0.13.1	<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/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/">http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz/</a>	BSD	Modified
libffi	3.0.11	<a href="http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/">http://pkgs.fedoraproject.org/repo/pkgs/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>	LGPLv2	Modified
libnetfilter_conntrack	1.0.4	<a href="https://git.netfilter.org/libnetfilter_conntrack/">https://git.netfilter.org/libnetfilter_conntrack/</a>	GPLv2	Used
libnetfilter_queue	1.0.2	<a href="https://git.netfilter.org/libnetfilter_queue/">https://git.netfilter.org/libnetfilter_queue/</a>	GPLv2	Used
libnfnetlink	1.0.1	<a href="https://git.netfilter.org/libnfnetlink/">https://git.netfilter.org/libnfnetlink/</a>	GPLv2	Used

libnl-tiny	0.1	<a href="https://github.com/openwrt/openwrt/tree/master/package/libs/libnl-tiny">https://github.com/openwrt/openwrt/tree/master/package/libs/libnl-tiny</a>	GPLv2/LGPLv2.1	Used
libpcap	1.1.1	<a href="http://www.tcpdump.org">www.tcpdump.org</a>	BSD	Used
libtool	2.4	<a href="http://www.gnu.org/software/libtool/">http://www.gnu.org/software/libtool/</a>	GPLv2	Used
libstrophe	0.10.0	<a href="https://github.com/strophe/libstrophe">https://github.com/strophe/libstrophe</a>	GPLv3	Used
Linux/Arm Kernel	3.18.21		GPLv2	Modified
logrotate	3.7.1	<a href="https://launchpad.net/ubuntu/hardy/i386/logrotate/">https://launchpad.net/ubuntu/hardy/i386/logrotate/</a>	GPLv2	Modified
ncurses	5.7	<a href="http://ftp.gnu.org/pub/gnu/ncurses/">http://ftp.gnu.org/pub/gnu/ncurses/</a>	MIT	Modified
ntfs-3g	2013.1.13	<a href="http://ntfs-3g.org">http://ntfs-3g.org</a>	GPLv2/LGPLv2	Used
ntpclient	2007_365	<a href="http://doolittle.icarus.com/ntpclient/">http://doolittle.icarus.com/ntpclient/</a>	GPLv2	Modified
openssl	1.0.2n	<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
pure-ftpd	1.0.30	<a href="http://pureftpd.org">http://pureftpd.org</a>	ISC/BSD	Modified
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>	GPLv2	Used
sqlite	3.6.23.1	<a href="http://www.sqlite.org/">http://www.sqlite.org/</a>	Public Domain License	Used
syslog-ng	2.0.10	<a href="https://github.com/balabit/syslog-ng">https://github.com/balabit/syslog-ng</a>	GPLv2	Used
tcpdump	4.2.1	<a href="http://www.tcpdump.org/">http://www.tcpdump.org/</a>	BSD	Used
udhcp	0.9.8	<a href="http://udhcp.busybox.net/">http://udhcp.busybox.net/</a>	GPLv2	Modified
util-linux	2.21.2	<a href="https://github.com/karelzak/util-linux/">https://github.com/karelzak/util-linux/</a>	GPLv2	Used
wide-dhcpv6	20080615	<a href="https://sourceforge.net/projects/wide-dhcpv6/">https://sourceforge.net/projects/wide-dhcpv6/</a>	BSD	Modified
zlib	1.2.7	<a href="https://github.com/madler/zlib">https://github.com/madler/zlib</a>	zlib	Used

## Known issues

Modules	Issue	Risk Impact Information

## Modifications in 5.50(ABVL.0)C0

Based on V5.50(ABVL.0)b10 to release V5.50(ABVL.0)C0

## Modifications in 5.50(ABVL.0)b10

### ● Feature Enhancement

Modified Modules	Features Enhancement List
	<ol style="list-style-type: none"> <li>1. Remove A134 NULL MAC STA patch</li> <li>2. Memory leak in mpad</li> <li>3. Block weather channels</li> <li>4. [A130] Cannot connect back after Radar detected</li> <li>5. IgmpSnEnable to per SSID (5G WLAN PC play IPTV will be broken picture severe)</li> </ol>

### ● Bug Fixed

Modified Modules	Bug Fixed List

## Modifications in 5.50(ABVL.0)b9

### ● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> <li>1. [#143001][MPro Mesh] AP roaming will generate more ping loss, iPhone SE will disconnect</li> <li>2. [#149938][MPro Mesh] RP controller paired extender_RP agent will occurs call trace</li> <li>3. [#150061][MPro Mesh_Agent] According APP 2.2 Feature Enhancement, Generic FW does not support MESH Up/Down</li> <li>4. [#150072][MPro Mesh_Agent] The connection type of</li> </ol>

	Extender-RP repeated switch to WiFi or Ethernet type
5.	[#150169][MPro Mesh] ZyPark MPro stress test environment, Stress testing it will cause Extender_RP1 to reboot

## Modifications in 5.50(ABVL.0)b8

### ● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> <li>[143001][MPro Mesh] AP roaming will generate more ping loss, iPhone SE will disconnect</li> <li>[143471][MPro Mesh] ZyPark MPro stress test environment, Stress testing will cause "ZyMAPSteer" daemon disappear</li> </ol>

## Modifications in 5.50(ABVL.0)b7

### ● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> <li>[143001][MPro Mesh] AP roaming will generate more ping loss, iPhone SE will disconnect</li> <li>[143471][MPro Mesh] ZyPark MPro stress test environment, Stress testing will cause "ZyMAPSteer" daemon disappear</li> </ol>

## Modifications in 5.50(ABVL.0)b6

### ● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> <li>[#139522][MPro Mesh_Agent] When client connected to guest WiFi , that client can not use APP</li> <li>[#143001][MPro Mesh] AP roaming will generate more ping loss, iPhone SE will disconnect</li> <li>[#140235][Stress] WX3100 will call trace after multi clients connect over night stress</li> <li>[#135285][MPro Mesh] Onboarding Extender will enable</li> </ol>



	<p>extender guest wifi by itself</p> <p>5. [#137435][MPro Mesh_Agent for iOS]All Extender change to normal wifi clients in Devices list page when let all Extender disconnect and connect again or reboot controller</p>
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## Modifications in 5.50(ABVL.0)b5

### ● Feature Enhancement

Modified Modules	Features Enhancement List
WLAN	<p>1. [Telenor] WPS IOP issue with EX3301-T0 with WX3100-T0 verification</p> <p>1.1 Disable power saving mode</p> <p>2. Update power table for CE certificate</p>
Security	<p>1. [#140744][BUGFIX][Common][CVE-2020-1971][Openssl]Correctly compare EdiPartyName in GENERAL_NAME_cmp()</p>

### ● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<p>1. [#139035][MPro Mesh] Sometimes extender cannot sync new wifi setting from controller. (Rate: 2/5)</p> <p>2. [#138948][MPro Mesh] WX3100_RP Agent will disconnect/connect repeatedly after WX3100_AP controller do auto configure.</p> <p>3. [#139389][MPro Mesh_Agent] Add extender success, but all extender did not show in APP Home Page</p> <p>4. [#135795][MPro Mesh] AP roaming test fail</p> <p>5. [#135723][MPro Mesh] Band steering, Wifi client information disappears, Returning to the controller will not steer wifi client to 5G.</p> <p>6. [#138860][Wireless] Key in AP SSID/password on Operating Mode page, WX3100 connect to gateway, but ip address still</p>

	<p>keep on 192.168.1.2</p> <ol style="list-style-type: none"> <li>7. [#139291][MPro Mesh] AP_Agent connected RP_Controller, the RP_Controller will disconnect and cannot connect back non_Mesh GW wifi.</li> <li>8. [#138857][Wireless] After AP List connect to gateway, ip address still keep on 192.168.1.2</li> <li>9. [#138969][Wireless] After disable 2.4G and 5G, CPE will call trace and can't reconnect to GW.</li> <li>10. [#135139][Wireless] After modify wifi setting, all guest AP beacon will sent out.</li> <li>11. [#137265][System] Sometimes WX3100 will hang and console can't print any information after SW reboot. (1/150 times)</li> <li>12. [#139774][MPro Mesh] WX3100_AP Controller occurs call trace and the new wifi client cannot connect Controller wifi in ZyPark Mesh stress environment.</li> </ol>
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## Modifications in 5.50(ABVL.0)b4

### ● Feature Enhancement

Modified Modules	Features Enhancement List
WLAN	<ol style="list-style-type: none"> <li>1. ECONET update the max TX power <ul style="list-style-type: none"> <li>● mt7915d_max_tx_power_in_beacon_probe_rsp_test_patch</li> </ul> </li> </ol>

### ● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> <li>1. [PQA #137413] [MPro Mesh_Agent] Reboot Extender via APP fail</li> <li>2. [PQA #137279] [MPro Mesh][1*AP_Agent + 2*RP_Agent topology] After AP controller do auto configure, RP_Agent occurs disconnect/reconnect continually and it does not</li> </ol>

	<p>sync wifi setting from AP Controller.</p> <ol style="list-style-type: none"> <li>[PQA #135795] [MPro Mesh] AP roaming test fail</li> <li>[PQA #135571] [MPro Mesh] Backhaul optimization cannot work.</li> <li>[PQA #137451] [MPro Mesh_Agent] Modify Extender name will lead agent crash</li> <li>[PQA #135735] [MPro Mesh] Wifi backhaul throughput test is poor</li> <li>[PQA #135475] [Wireless] WX3100 disconnect and re-connect to gateway when clients connect to WX3100.</li> <li>[PQA #135890] [MPro Mesh] ZyPark MPro stress test environment, Stress testing will cause "ZyMAPSteer" daemon disappear</li> </ol>
SYSTEM	<ol style="list-style-type: none"> <li>[PQA #137136] [TR-069] After reboot WX3100, ACS URL will change to default.</li> </ol>

## Modifications in 5.50(ABVL.0)b3

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> <li>[PQA #135385] [MPro Mesh] Controller table is empty in Steering status page.</li> <li>[PQA #135720] [MPro Mesh] It does not support L2Device reboot parameter in TR.</li> <li>[PQA #135386] [MPro Mesh] WX3100 does not support Mesh log category.</li> <li>[PQA #135377] [MPro Mesh] After do auto configure, sometimes RP_Agent cannot connect back AP controller.</li> </ol>

	<ol style="list-style-type: none"> <li>5. [PQA #135439] [MPro Mesh] Extender_RP will loop and it cannot connect back controller when do auto configure or controller do reboot/ FW upgrade/ restore backup configure file.</li> <li>6. [PQA #135115] [Wireless] SSID display error after run uplink/downlink WPS.</li> <li>7. [PQA #135571] [MPro Mesh] Backhaul optimization cannot work.</li> <li>8. [PQA #135795] [MPro Mesh] AP roaming test fail</li> <li>9. [PQA #135723] [MPro Mesh] Band steering, Wifi client information disappears, Returning to the controller will not steer wifi client to 5G.</li> <li>10. [PQA #135741] [MPro Mesh] It cannot dump 2nd layer agent in mesh station list by using "zyslctl -a".</li> <li>11. [PQA #135574] [MPro Mesh] Link quality led light green on RP controller even rssi less than -50.</li> <li>12. [PQA #135211] [Wireless] Link LED can't work on Repeater mode (Gateway disable MESH)</li> <li>13. [PQA #135772] [MPro Mesh] WX3100 Agent cannot sync controller wifi setting if SSID has space character.</li> </ol>
SYSTEM	<ol style="list-style-type: none"> <li>1. [PQA #135585] [MPro Mesh_Agent] APP cannot search controller</li> <li>2. [PQA #135236] [Stress]Overnight stress test, DUT will happen call trace</li> <li>3. [PQA #133469] [TR-069]After Modify ACS URL, reboot DUT will call trace</li> <li>4. [PQA #133578] [System] Call trace and hang problem after restore default, restore config or GUI reboot</li> <li>5. [PQA #133536] [System] WX3100 call trace after upgrade to dummy or b1 FW (Need reboot)</li> <li>6. [PQA #133654] [TR-069]Upgrade FW to dummy from ACS server, reboot process will call trace</li> </ol>
LED	<ol style="list-style-type: none"> <li>1. [PQA #135268] [LED] RP mode, When disconnect Gateway link, Link LED still on</li> </ol>

## Modifications in 5.50(ABVL.0)b2

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List

## Modifications in 5.50(ABVL.0)b1

### ● Feature Enhancement

Modified Modules	Features Enhancement List

### ● Bug Fixed

Modified Modules	Bug Fixed List