

WX3100-T0 Generic

Firmware Release Note

V5.50(ABVL.1.1)C0

Date: Nov 07, 2022

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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 |
| 2021/10/4 | 2.0 | Joanna Su | FW release for V5.50(ABVL.1)b1 |
| 2021/12/17 | 2.1 | Neil Chen | FW release for V5.50(ABVL.1)b2 |
| 2022/02/10 | 2.2 | Neil Chen | FW release for V5.50(ABVL.1)b3 |
| 2022/02/24 | 2.3 | Neil Chen | FW release for V5.50(ABVL.1)b4 |
| 2022/03/03 | 2.4 | Neil Chen | FW release for V5.50(ABVL.1)C0 |
| 2022/11/07 | 3.0 | Neil Chen | FW release for V5.50(ABVL.1.1)b1 |
| 2022/11/07 | 3.1 | Neil Chen | FW release for V5.50(ABVL.1.1)C0 |

WX3100-T0 Generic V5.50(ABVL.1.1)C0 Release Note

Date: Nov 07, 2022

Supported Platforms:

Zyxel WX3100-T0

Versions:

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

Firmware version : V5.50(ABVL.1.1)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 | https://sourceforge.net/projects/atftp/ | GPLv2 | Modified |
| bridge-Utills | 1.0.6 | 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 |
| dropbear | 2018.76 | https://github.com/mkj/dropbear | MIT | Modified |
| ebtables | 2.0.8-2 | 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 | 0.16.1 | 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 | 1.4.10 | 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 |
| libnfnetlink | 1.0.1 | https://git.netfilter.org/libnfnetlink/ | 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 |
| libstrophe | 0.10.0 | https://github.com/strophe/libstrophe | GPLv3 | Used |
| Linux/Arm Kernel | 3.18.21 | | GPLv2 | Modified |
| 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 |
| ntpclient | 2007_365 | http://doolittle.icarus.com/ntpclient/ | GPLv2 | Modified |
| openssl | 1.0.2n | http://www.openssl.org | OpenSSL | Modified |
| popt | 1.16 | http://rpm5.org/files/popt/ | MIT | Modified |
| pure-ftpd | 1.0.30 | http://pureftpd.org | ISC/BSD | Modified |
| 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 | 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 |
| util-linux | 2.21.2 | https://github.com/karelzak/util-linux/ | GPLv2 | Used |
| wide-dhcpv6 | 20080615 | https://sourceforge.net/projects/wide-dhcpv6/ | BSD | Modified |
| zlib | 1.2.7 | https://github.com/madler/zlib | zlib | Used |

Known issues

| Modules | Issue | Risk Impact Information |
|---------|-------|-------------------------|
| | | |

Modifications in 5.50(ABVL.1.1)C0

Based on V5.50(ABVL.1.1)b1 to release V5.50(ABVL.1.1)C0

Modifications in 5.50(ABVL.1.1)b1

● Bug Fixed

| Modified Modules | Bug Fixed List |
|------------------|--|
| System | 1. [#177431] [Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability, for WX3100-T0 |

Modifications in 5.50(ABVL.1)C0

Based on V5.50(ABVL.1)b4 to release V5.50(ABVL.1)C0

Modifications in 5.50(ABVL.1)b4

● Bug Fixed

| Modified Modules | Bug Fixed List |
|------------------|---|
| TR-069 | 1. [#161367] WX3100-T0 / Config Issue after XMPP config via TR-069 (AX69) |

Modifications in 5.50(ABVL.1)b3

● Feature Enhancement

| Modified Modules | Features Enhancement List |
|------------------|--|
| TR-069 | 1. [#159862] WX3100-T0 - V5.50(ABVL.0)C0 - Retrieve LAN Host |

| | |
|------|--|
| | Host Type - TR069 testing 2. [#159859] WX3100-T0 - V5.50(ABVL.0)C0 - Retrieve LAN Ethernet Port Speed - TR069 testing |
| DHCP | 1. [#158732] WX3100, Request opt 43 to receive ACS URL from CPE, with auto-activation of CWMP |

● Bug Fixed

| Modified Modules | Bug Fixed List |
|--------------------|---|
| TR-069 | 2. [#159081] WX3100-T0 - V5.50(ABVL.0)C0 - Retrieve IP Ping Results - TR069 testing |
| Home Device | 1. [#152620] WX3100-T0 - Ethernet LAN clients connected to a Repeater are not listed in the MPro Mesh App |
| Router Information | 1. [#159441] [Nology] Set SSID to custom one - SSID is configured twice |

Modifications in 5.50(ABVL.1)b2

● Feature Enhancement

| Modified Modules | Features Enhancement List |
|------------------|--|
| WiFi | 3. [#149556] v5.50(AVBL.0)b7 - WX3100-T0 - MPro Mesh App - Does not resolve hostnames only MAC addresses |
| GUI | 1. [#149554] v5.50(AVBL.0)b7 - WX3100-T0 - ROM-D functionality contains no Save option |
| SYSTEM | 2. [#155334] [Feature] WX3100-T0, cancel signal too strong Amber LED |

● Bug Fixed

| Modified Modules | Bug Fixed List |
|------------------|---|
| WLAN | 1. [#152621] WX3100-T0 - v5.50(ABVL.0)b8 - MPro Mesh App reports all connected devices as wired not wireless 2. [#153010] WX3100-T0 Mpro Mesh - Set SSID to custom one - |

| | |
|--------|--|
| | SSID is configured twice |
| SYSTEM | 3. [#156203] WX3100-T0 / IPv6 / No Default Route 4. [#157879] TR-069 interface binding unstable with IPv6 |

Modifications in 5.50(ABVL.1)b1

● Feature Enhancement

| Modified Modules | Features Enhancement List |
|------------------|--|
| | 1. [#153239] support Lifemote agent TR-181 parameters 2. [#155002] support pre-paired for Twin-pack |

● Bug Fixed

| Modified Modules | Bug Fixed List |
|------------------|----------------|
| | |

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 |
|------------------|--|
| | 1. Remove A134 NULL MAC STA patch 2. Memory leak in mpad 3. Block weather channels 4. [A130] Cannot connect back after Radar detected 5. IgmpSnEnable to per SSID (5G WLAN PC play IPTV will be broken picture severe) |

● **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"> 1. [#143001][MPro Mesh] AP roaming will generate more ping loss, iPhone SE will disconnect 2. [#149938][MPro Mesh] RP controller paired extender_RP agent will occurs call trace 3. [#150061][MPro Mesh_Agent] According APP 2.2 Feature Enhancement, Generic FW does not support MESH Up/Down 4. [#150072][MPro Mesh_Agent] The connection type of 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"> 1. [143001][MPro Mesh] AP roaming will generate more ping loss, iPhone SE will disconnect 2. [143471][MPro Mesh] ZyPark MPro stress test environment, Stress testing will cause "ZyMAPSteer" daemon disappear |

Modifications in 5.50(ABVL.0)b7

● **Bug Fixed**

| Modified | Bug Fixed List |
|----------|----------------|
|----------|----------------|

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

Modifications in 5.50(ABVL.0)b6

● Bug Fixed

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

Modifications in 5.50(ABVL.0)b5

● Feature Enhancement

| Modified Modules | Features Enhancement List |
|------------------|--|
| WLAN | <ol style="list-style-type: none"> [Telenor] WPS IOP issue with EX3301-T0 with WX3100-T0 verification <ol style="list-style-type: none"> 1.1 Disable power saving mode Update power table for CE certificate |
| Security | <ol style="list-style-type: none"> [#140744][BUGFIX][Common][CVE-2020-1971][Openssl]Correctly compare EdiPartyName in GENERAL_NAME_cmp() |

● Bug Fixed

| Modified Modules | Bug Fixed List |
|------------------|--|
| WLAN | <ol style="list-style-type: none"> <li>1. [#139035][MPro Mesh] Sometimes extender cannot sync new wifi setting from controller. (Rate: 2/5) <li>2. [#138948][MPro Mesh] WX3100_RP Agent will disconnect/connect repeatedly after WX3100_AP controller do auto configure. <li>3. [#139389][MPro Mesh_Agent] Add extender success, but all extender did not show in APP Home Page <li>4. [#135795][MPro Mesh] AP roaming test fail <li>5. [#135723][MPro Mesh] Band steering, Wifi client information disappears, Returning to the controller will not steer wifi client to 5G. <li>6. [#138860][Wireless] Key in AP SSID/password on Operating Mode page, WX3100 connect to gateway, but ip address still keep on 192.168.1.2 <li>7. [#139291][MPro Mesh] AP_Agent connected RP_Controller, the RP_Controller will disconnect and cannot connect back non_Mesh GW wifi. <li>8. [#138857][Wireless] After AP List connect to gateway, ip address still keep on 192.168.1.2 <li>9. [#138969][Wireless] After disable 2.4G and 5G, CPE will call trace and can't reconnect to GW. <li>10. [#135139][Wireless] After modify wifi setting, all guest AP beacon will sent out. <li>11. [#137265][System] Sometimes WX3100 will hang and console can't print any information after SW reboot. (1/150 times) <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. |

Modifications in 5.50(ABVL.0)b4

● Feature Enhancement

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

● Bug Fixed

| Modified Modules | Bug Fixed List |
|------------------|--|
| WLAN | 1. [PQA #137413] [MPro Mesh_Agent] Reboot Extender via APP fail 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 sync wifi setting from AP Controller. 3. [PQA #135795] [MPro Mesh] AP roaming test fail 4. [PQA #135571] [MPro Mesh] Backhaul optimization cannot work. 5. [PQA #137451] [MPro Mesh_Agent] Modify Extender name will lead agent crash 6. [PQA #135735] [MPro Mesh] Wifi backhaul throughput test is poor 7. [PQA #135475] [Wireless] WX3100 disconnect and re-connect to gateway when clients connect to WX3100. 8. [PQA #135890] [MPro Mesh] ZyPark MPro stress test environment, Stress testing will cause "ZyMAPSteer" daemon disappear |
| SYSTEM | 1. [PQA #137136] [TR-069] After reboot WX3100, ACS URL will change to default. |

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"> [PQA #135385] [MPro Mesh] Controller table is empty in Steering status page. [PQA #135720] [MPro Mesh] It does not support L2Device reboot parameter in TR. [PQA #135386] [MPro Mesh] WX3100 does not support Mesh log category. [PQA #135377] [MPro Mesh] After do auto configure, sometimes RP_Agent cannot connect back AP controller. [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. [PQA #135115] [Wireless] SSID display error after run uplink/downlink WPS. [PQA #135571] [MPro Mesh] Backhaul optimization cannot work. [PQA #135795] [MPro Mesh] AP roaming test fail [PQA #135723] [MPro Mesh] Band steering, Wifi client information disappears, Returning to the controller will not steer wifi client to 5G. [PQA #135741] [MPro Mesh] It cannot dump 2nd layer agent in mesh station list by using "zyslctl -a". [PQA #135574] [MPro Mesh] Link quality led light green on RP controller even rssi less than -50. [PQA #135211] [Wireless] Link LED can't work on Repeater mode (Gateway disable MESH) |

| | |
|--------|--|
| | 13. [PQA #135772] [MPro Mesh] WX3100 Agent cannot sync controller wifi setting if SSID has space character. |
| SYSTEM | <ol style="list-style-type: none"> 1. [PQA #135585] [MPro Mesh_Agent] APP cannot search controller 2. [PQA #135236] [Stress]Overnight stress test, DUT will happen call trace 3. [PQA #133469] [TR-069]After Modify ACS URL, reboot DUT will call trace 4. [PQA #133578] [System] Call trace and hang problem after restore default, restore config or GUI reboot 5. [PQA #133536] [System] WX3100 call trace after upgrade to dummy or b1 FW (Need reboot) 6. [PQA #133654] [TR-069]Upgrade FW to dummy from ACS server, reboot process will call trace |
| LED | 1. [PQA #135268] [LED] RP mode, When disconnect Gateway link, Link LED still on |

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 | Features Enhancement List |
|----------|---------------------------|
| | |

| Modules | |
|---------|--|
| | |

● Bug Fixed

| Modified Modules | Bug Fixed List |
|------------------|----------------|
| | |