

WX3401-B0 Generic

Firmware Release Note

V5.17(ABVE.2.4)C0

Date: February 29, 2024

Author: Yu Chang

Reviewer: Peter Su

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Revision History

Date	Release	Author	Description
2020/04/30	1.0	Joanna Su	FW release for V5.17(ABVE.0)b1
2020/06/10	1.1	Joanna Su	FW release for V5.17(ABVE.0)b2
2020/06/12	1.2	Joanna Su	FW release for V5.17(ABVE.0)b3
2020/07/14	1.3	Joanna Su	FW release for V5.17(ABVE.0)b4
2020/08/11	1.4	Joanna Su	FW release for V5.17(ABVE.0)b5
2020/09/11	1.5	Joanna Su	FW release for V5.17(ABVE.0)b6
2020/09/30	1.6	Joanna Su	FW release for V5.17(ABVE.0)b7
2020/10/16	1.7	Joanna Su	FW release for V5.17(ABVE.0)b8
2020/10/23	1.8	Joanna Su	FW release for V5.17(ABVE.0)C0
2021/02/19	2.0	ChihWei Chen	FW release for V5.17(ABVE.1)b1
2021/04/19	2.1	ChihWei Chen	FW release for V5.17(ABVE.1)b2
2021/05/07	2.2	ChihWei Chen	FW release for V5.17(ABVE.1)b3
2021/05/21	2.3	YenLing Liu	FW release for V5.17(ABVE.1)b4
2021/06/25	2.4	YenLing Liu	FW release for V5.17(ABVE.1)b5
2021/07/14	2.5	YenLing Liu	FW release for V5.17(ABVE.1)C0
2021/11/12	2.6	YenLing Liu	FW release for V5.17(ABVE.2)b1
2022/01/14	2.7	Yu Chang	FW release for V5.17(ABVE.2)b2
2022/03/11	2.8	Yu Chang	FW release for V5.17(ABVE.2)b3
2022/05/04	2.9	Yu Chang	FW release for V5.17(ABVE.2)b4
2022/08/03	2.10	Yu Chang	FW release for V5.17(ABVE.2)b5
2022/09/02	2.11	Routine Chen	FW release for V5.17(ABVE.2)b6
2022/09/07	2.12	Routine Chen	FW release for V5.17(ABVE.2)C0
2022/11/23	2.13	Yu Chang	FW release for V5.17(ABVE.2.1)b1
2023/04/14	2.14	WeiYu Lin	FW release for V5.17(ABVE.2.2)b1
2023/05/09	2.15	WeiYu Lin	FW release for V5.17(ABVE.2.2)b2
2023/06/12	2.16	WeiYu Lin	FW release for V5.17(ABVE.2.2)b3
2023/07/25	2.17	WeiYu Lin	FW release for V5.17(ABVE.2.2)b4
2023/09/06	2.18	Yu Chang	FW release for V5.17(ABVE.2.2)C0
2023/10/20	2.19	Yu Chang	FW release for V5.17(ABVE.2.3)b1
2023/10/31	2.20	Yu Chang	FW release for V5.17(ABVE.2.3)C0
2024/02/29	2.21	Yu Chang	FW release for V5.17(ABVE.2.4)b1

2024/02/29	2.22	Yu Chang	FW release for V5.17(ABVE.2.4)C0
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WX3401-B0 Generic V5.17(ABVE.2.4)C0 Release Note

Date: February 29, 2024

Supported Platforms:

Zyxel WX3401-B0

Versions:

Bootbase version : V1.59 | 02/21/2022 18:37:45

Firmware version : V5.17(ABVE.2.4)C0

Kernel version: 4.1.52

WLAN code version: 17.10.157.60

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-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
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
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
jpegsrvc	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
libnfnetwork	1.0.1	https://git.netfilter.org/libnfnetwork/	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	4.1.52		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	1.1.1f	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
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	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
WLAN	1. Not support TR98 for "InternetGatewayDevice.LANDevice.{i}.WLANConfiguration.{i}."	Not support the data model
	2. [#150654][MPro Mesh_Agent] WAP_APC onboarding Extender-RP_Agent via twin pack during sync process and launch APP, it will lead "zcmd" daemon crash then WAP_APC to reboot (rate:3/10)	
	3. [#164200] [MPro Mesh] Shielding room B Multy Pro stress test environment, RP_agent reboot 4 times automatically and then cannot connect back to Controller.	
	4. [#164134] [MPro Mesh] Shielding room E Multy Pro stress test environment, RP_Agent Kernel panic cause reboot.	
	5. [#160468][MPro Mesh] Shielding room E Multy Pro stress test environment, WX3401_RP reboot automatically after doing stress test 2 days 17 hours.	
	6. [#160306][MPro Mesh] Shielding room B Multy Pro stress test environment, after 0.5 days WX3401_Controller/RP/AP will occurs reboot	
	7. [#190715][MPro Mesh] Backhaul optimization cannot work	
System	1. [#143807][System] Downgrade firmware from 1b1 to latest FCS 0C0, user can't login GUI and Wifi client can't connect successful.	

TR-069	1. [#143817][MGMT] WX3401 Downgrade to 0C0, XMPP can't work	
GUI	1. [#157958][MPro Mesh] The controller WX3401 display in Wired on connectivity page of RP_Agent WX3401 2. [#158701] [MPro Mesh] The controller DX5401-B0 display in Wired on connectivity page of RP_Agent WX3401 3. [#162873][MPro Mesh] RP_Agent WX3401 or AP_Controller WX3401 display in Wired on connectivity page of RP_Agent WX3401	

Modifications in 5.17(ABVE.2.4)C0

Based on V5.17(ABVE.2.4)b1 to release V5.17(ABVE.2.4)C0

Modifications in 5.17(ABVE.2.4)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1. [#205684][Vulnerability] Zyxel-SI-1536 [Vulnerability] Buffer overflow vulnerability in the "traceroute" command of DX3300-T1 CPE

Modifications in 5.17(ABVE.2.3)C0

Based on V5.17(ABVE.2.3)b1 to release V5.17(ABVE.2.3)C0

Modifications in 5.17(ABVE.2.3)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	2. [#199552] [eITS#230901260]WX3401, Custom config causes DHCP issues after factory reset

Modifications in 5.17(ABVE.2.2)C0

Based on V5.17(ABVE.2.2)b4 to release V5.17(ABVE.2.2)C0

Modifications in 5.17(ABVE.2.2)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
TR-069	1. [#167418] [eITS#220501100]WX3401, support for Lifemote agent

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.17(ABVE.2.2)b3

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

WLAN	<ol style="list-style-type: none"> 1. [#190503][MPro Mesh] WX3401-B0 disable mesh fail via CFG 2. [#190525][MPro Mesh] APC role will change from Controller to Agent and AP/RP agent switch to Controller frequently 3. [#190549][MPro Mesh] WX3401-B0 APC reset to default, then re-pair to the same extender fail. 4. [190559][MPro Mesh] When RP_Agent switch to AP_Agent mode, it will repeatedly restart wifi 5. [191135][MPro Mesh] After WX3401_RP disconnect, RP's signal led always keep solid green. 6. [#187910][eITS#230400635] WX3401 not able to join mesh with EX5401 or AX7501 and Guest Network 7. [#188267][eITS#230401071] WX3401 not able to join mesh with EX5501-B0 and Guest Network 8. [#190709] [MPro Mesh] Agent random disconnect/connect when modify wifi SSID/Password or Enable / disable guest. 9. [#190889] [MPro Mesh] Agent random disconnect/connect when modify main SSID/Password or Enable / disable guest. 10. [#191027] [MPro Mesh] Agent random Restart WIFI after modify main SSID/Password or Enable / disable guest. 11. [#190806][MPro Mesh] Controller DX5401-B0 reset to default, the re-pair to the same extender (WX3401-B0) fail.
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Modifications in 5.17(ABVE.2.2)b2

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
TR-069	1. [#188041] XMPP does not work.

WLAN	<ol style="list-style-type: none"> 1. [#187910][eITS#230400635]WX3401 not able to join mesh with EX5401 or AX7501 and Guest Network 2. [#188267][eITS#230401071]WX3401 not able to join mesh with EX5501-B0 and Guest Network 3. [#189901][eITS#230500695]WX3401, Daisy chain topology not working
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Modifications in 5.17(ABVE.2.2)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1. [#186975] [Vulnerability] OpenSSL multiple vulnerabilities

Modifications in 5.17(ABVE.2.1)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1. Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability, for WX3401-B0

Modifications in 5.17(ABVE.2)C0

Based on V5.17(ABVE.2)b6 to release V5.17(ABVE.2)C0

Modifications in 5.17(ABVE.2)b6

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	2. [#171645][MPro Mesh] After Agent disconnected and connect again, some Agent's LED light is show wrong 3. [#171827] [LED] [3 times] RP mode signal LED will turn off during the test

Modifications in 5.17(ABVE.2)b5

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	1. [#167704][Security] CPE happen "Invalid memory segment access" after Create Certificate Request
WLAN	1. [#135912][MPro Mesh] Sometimes information for RP agent is incorrect in zyslctl -a. (Rate: 1/20) 2. [#158106][MPro Mesh] Modify wifi setting, it will lead Controller switch to Agent. Even the device role change back to Controller, the topology is incorrect in console. (zyslctl -a) 3. [#163437][MPro Mesh] Using Candela to simulate 32* 2.4G & 32* 5G wifi clients associate/ disassociate stress test, it will lead Controller to reboot

	4. [#165545][MPro Mesh_Agent] WX3401_RP will change role to Controller after modify Controller wifi settings via APP (rate:7/10)
GUI	1. [#144086] [GUI] The connected clients always display "Unknown" status in Connectivity page

Modifications in 5.17(ABVE.2)b4

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	<ol style="list-style-type: none"> 1. [#150655][TR069] Connect request of XMPP can't work by default with dns srv query. 2. [#153856] Static IP to Connection Gateway and reboot CPE, then CPE is unable to connect to the internet. 3. [#162799] Please update DST Log Setting to meet feature #159856 4. [#162825][TR-069] Define default XMPP ServerConnect Algorithm 5. [#162862] [TR-181] Device.RootDataModelVersion is incorrect 6. [#162864] [TR-181] DUT returns FaultCode 9005 to GPV Device.ManagementServer.X_ZYXEL_DataModelSpec 7. [#163373] [TR-181] Parameter values are different with GPV paths 8. [#163927] [Zyxel-SI-1377] cleartext storage of sensitive information vulnerability 9. [#165171][Zyxel-SI-1405][Vulnerability] Infinite loop in BN_mod_sqrt() of OpenSSL when parsing certificates
GUI	1. [#162810][WLAN] 5G Guest-1 is not enabled when 2.4G Guest-1 is enabled

	<ol style="list-style-type: none"> [#162910] [WLAN] 5G Guest-1 is enabled but the status is disabled on Guest WiFi card page(OneSSID disabled) [#162913] [MPro Mesh] WX3401-B0 2.4G guest_1 enable/disable cannot be sync to 5G guest_1.
WLAN	<ol style="list-style-type: none"> [#135802] [MPro Mesh_Agent] Controller Internet status sometimes switch to No Internet connection even the Internet is keep in connection status [#136853] [MPro Mesh] Controller information has disappeared in mesh topology and steering status page after backup then restore config file to RP Controller. [#148128] [MPro Mesh_Agent] Non_Mesh GW Detail information should not show in End Devices list page [#157588] [MPro Mesh] Shielding room E Multy Pro stress test environment, after 2.5 days WX3401_RP channel display "0" on mesh topology (zyslctl -a) [#160306] [MPro Mesh] Shielding room B Multy Pro stress test environment, after 0.5 days WX3401_Controller/RP/AP will occurs reboot [#160468] [MPro Mesh] Shielding room E Multy Pro stress test environment, WX3401_RP reboot automatically after doing stress test 2 days 17 hours. [#160675] [MPro Mesh_Agent] Switch RP_Agent to AP_Agent then modify Main SSID and PreSharedKey / upgrade FW, it can search two Controller in the same Mesh Topology. [#160778] [MPro Mesh] WX3401 is easier to switch Dynamic role than WX3100-A1 [#162859] [MPro Mesh_Agent] When wire client (NB) connected RP_Agent, that client information does not show in APP Devices page [#163939] [MPro Mesh] When modify wifi setting WX3401 auto role is abnormal, it will lead DX5401 Mesh confusion and "wbd_master" daemon to disappear [#164132] [MPro Mesh] Shielding room E Multy Pro stress test environment, it will cause "wbd_master" daemon to disappear

	<p>12. [#164134] [MPro Mesh] Shielding room E Multy Pro stress test environment, RP_Agent Kernel panic cause reboot.</p> <p>13. [#153825] [MPro Mesh] ZyPark Multy Pro stress test environment, Extender-RP reboot automatically during test. (twice)</p>
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Modifications in 5.17(ABVE.2)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
System	1. Support Co-FW and board detect mechanism
GUI	<p>1. [#144374][eITS Ticket #210300179] Change node name on master node</p> <p>2. [#159856][eITS Ticket #220100266] WX3401, syslog settings</p>

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<p>1. [#158376][WLAN] DUT downlink with WPA3 failed</p> <p>2. [#158388][MPro Mesh] Using Candela to simulate 32* 2.4G & 32* 5G wifi clients associate/ disassociate stress test, it will lead "wbd master" daemon disappeared</p> <p>3. [#158902][eITS Ticket # 211200936] WX3401, auto-controller #1</p> <p>4. [#160587][MPro Mesh_Agent] When clients connect Controller/RP_Agent via wifi, but the connection type often switch to Wire type</p> <p>5. [#160651][MPro Mesh_Agent] When client connected to guest WiFi , that client should not access APP</p> <p>6. [#160984][eITS Ticket #220200143] WX3401, Clients suffering from sudden loss of phyrate</p> <p>7. [#161309][WLAN] DUT reboot during 64-client stress test (AP mode)</p>
System	<p>4. [#160896][TR-069] XMPP does not work</p> <p>5. [#145484][eITS Ticket #210301482] TR-181</p>

	Device.Ethernet.Interface.{i}.Upstream incorrect 6. [#160731][WLAN] Wireless 5G guest 1 cannot enable from card page
APP	14. [#160594][MPro Mesh_Android] When clients connect Controller via Ethernet , that client detail information should be hide Max Speed info. 15. [#160823][MPro Mesh_Android] Google Pixel 6, APP Home page "Connected Devices" wording is beyond the region and "RESTART" wording is incomplete

Modifications in 5.17(ABVE.2)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	1. [#144103]After FW update change the Host Name WX3401-B0
WLAN	1. [#158906][eITS Ticket # 211200938] WX3401, auto-controller #3 2. [#158907][eITS Ticket # 211200939] WX3401, auto-controller #4
SYSTEM	1. [#159852][eITS Ticket #220100265] WX3401, redirect_console missing in 2b1

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	1. [#130878][Wireless] WX3401 5G uplink and downlink will disconnect after 64 client connect (RP mode, AP mode have same issue) 2. [#144094][Wireless] Testing WX3401-B0 wireless throughput by IxChariot, the performances are bad on 2.4G and 5G Tx/Rx/BI 3. [#147907][MPro Mesh_Agent] APP keep extender "No connection" status long time in main page when all extender are disconnect about 10 minutes

	<ol style="list-style-type: none"> [#151049][MPro Mesh] On the controller connectivity page, wifi host IP cannot be displayed [#158062][MPro Mesh] BSSID Station table missing extender information in console topology (zyslctl -a) [#158081][MPro Mesh] Switch RP_Agent to AP_Agent then modify Main/Guest SSID and PreSharedKey, it will lead Controller switch to Agent and APP can't auto login [#158145][WLAN] After doing FW upgrade from 1C0 to 2b1, 2.4G 802.11 Mode becomes null in System Info page. [#158149][MPro Mesh] Switch RP_agent between AP_agent several times, that agent 5G main MDID will be one more. [#158388][MPro Mesh] Using Candela to simulate 32* 2.4G & 32* 5G wifi clients associate/ disassociate stress test, it will lead "wbd master" daemon disappeared
SYSTEM	<ol style="list-style-type: none"> [#158133][MPro Mesh] Reboot Controller(APC), it will lead Controller to repeatedly reboot [#158196][System] Maximum password length in "Login", "Privilege" and "User Account" page doesn't match [#158207][XMPP] Default ServerConnectAlgorithm should be DNS-SRV [#158279][System] DST does not match DUT GUI value. [#158962][eITS Ticket #211200990]WX3401, Disabling EasyMesh enables OneSSID
GUI	<ol style="list-style-type: none"> [#158038][WLAN] Wireless 5G guest 1 can not enable from card page
TR-069	<ol style="list-style-type: none"> [#145482][eITS Ticket #210301479]TR-181 Backhaul-parameters incorrect [#158158][ACS] Info package should not display Device.GatewayInfo.parameter information. [#158246][TR069] ACS IP protocol change, it can't work immediately after setting, need reboot CPE.

Modifications in 5.17(ABVE.2)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
TR-069	1. [#145486][eITS Ticket # 210301483][ZTW-16] TR-181 Support for GatewayInfo
GUI	1. [#146690][eITS Ticket # 210401010] WX3401, enabling guest-network via gui 2. [#154292] GUI support "save to ROM-D" button
WLAN	1. [#153849][Feature] WX3401-B0, cancel signal too strong Amber LED 2. [#154659][APP] Polish language support 3. [#156796] WX3401, Dynamic role design

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	1. [#130878][Wireless] WX3401 5G uplink and downlink will disconnect after 64 client connect (RP mode, AP mode have same issue) 2. [#132250][Stress] WX3401 will disconnect with EX5501 after 27 2.4G pi client start to connect. 3. [#133652][MPro Mesh] WX3401 signal quality LED often fails to maintain a stable color 4. [#147907][MPro Mesh_Agent] APP keep extender "No connection" status long time in main page when all extender are disconnect about 10 minutes 5. [#149495][eITS Ticket #210600257] disconnected clients still shows in zyslctf
TR-069	1. [#150798][MPro Mesh] WX3401-B0 cannot get MESH topology via TR-069 2. [#145482] [eITS Ticket #210301479][ZTW-12] TR-181 Backhaul-parameters incorrect 3. [#150912] [eITS Ticket #210700077] WX3401 - Keepalive not work probably after reboot. 4. [#151401] [eITS Ticket #210700822] XMPP/Keep Alive session Issue - S204150001911

	5. [#150708] [eITS Ticket #210601843] WX3401-B0 XMPP working behavior change to follow standard
Vulnerability	1. [#144627] [Vulnerability][WX3401-B0] Vulnerabilities in Multiple Zyxel Equipment from Sec consult (issue 1~8, Issue 10) 2. [#145674] [Vulnerability][EESBU] Vulnerabilities in Multiple Zyxel Equipment from Sec consult: issues 9 3. [#145677] [Vulnerability][EESBU] Vulnerabilities in Multiple Zyxel Equipment from Sec consult: issues 11
System	1. [#156791] [WX3401] LAN1 and LAN2 display incorrect in GUI 2. [#136933] [MPro Mesh_Agent] Extender should not show two same devices in Home page

Modifications in 5.17(ABVE.1)C0

Based on V5.17(ABVE.1)b5 to release V5.17(ABVE.1)C0

Modifications in 5.17(ABVE.1)b5

● Feature Enhancement

Modified Modules	Features Enhancement List
TR-069	1. [#144547][eITS Ticket #210300682] WX3401, opt60

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	1. [#146706][MPro Mesh] Controller and all extenders stay idle overnight, it will cause "wbd_master" daemon to disappear (happened 3 time) 2. [#147576][MPro Mesh] In Mesh Stress environment, it will cause "wbd_master" daemon to disappear 3. [#147802][MPro Mesh] All information of steering status is empty, If WX3401 is controller.

	<ol style="list-style-type: none"> [#147916][MPro Mesh_Agent] End devices always keep in Devices list page via repeated disconnect and reconnect status when client disconnected that end devices [#148013][OPAL Generic][MPro Mesh] All information of steering status is empty, If WX3401 is controller. [#144653][MPro Mesh] ZyPark MultyPro stress test environment, it will cause "zyMAPSteer" daemon to Disappear
TR-069	<ol style="list-style-type: none"> [#149237][eITS Ticket #210500951] WX3401 - No XMPP JABBER ID created

Modifications in 5.17(ABVE.1)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	<ol style="list-style-type: none"> [#143823] [System] GUI Diagnostic page not support used domain address [#148283][eITS Ticket #210500419] Selection language should be "Deutsch" instead of DEU [#148285] Multi-language GUI for WX3401-B0
WLAN	<ol style="list-style-type: none"> [#144641] Device name instead of MAC addresses

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> [#144632] [Vulnerability] [WX3401-B0] BRCM "DeAgg & DeFrag Attacks"

Modifications in 5.17(ABVE.1)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	<ol style="list-style-type: none"> [#146701] [DT] German language web-GUI for the WX3401

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> [#143697] [MPro Mesh_Agent] Some clients did not display in APP when client connected to extender [#143722] [MPro Mesh_Agent] Extender_RP will be repeated disappeared in APP Home page [#146539] [MPro Mesh] WX3401 RP_agent is often disconnected from the controller [#146542] [[MPro Mesh] RP_Controller or Agent in GUI card page, Connectivity shows there is no internet [#146551] [MPro Mesh_Agent] According APP 2.2 Feature Enhancement, Generic FW does not support MESH Up/Down [#146730] [MPro Mesh] Sometimes online extender "stale=Yes" [#146734] [MPro Mesh] WX3401 Controller disable / enable 5G will cause the device to reboot [#147576] [MPro Mesh] In Mesh Stress environment, it will cause "wbd_master" daemon to disappear
System	<ol style="list-style-type: none"> [#142951] WX3401-B0 memory leakage
GUI	<ol style="list-style-type: none"> [#146674] [Wireless] WX3401 will disconnect to gateway, after login GUI, Channel Status, 5G Operating Modes.... [#146807] [Wireless] AP List can't scan SSID immediately when change page. [#146809] [Wireless] Connection Status of Operating Modes always display not connected after connect to gateway.

Modifications in 5.17(ABVE.1)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	<ol style="list-style-type: none"> [#144376] [eITS Ticket # 210300193] NodeName is not displayed on main page

	2. [#144642] [eITS Ticket # 210300770] One Web-GUI (Controller) for the mesh 3. [#144687] [eITS Ticket # 210300852] DNS redirect
System	1. [#144380] [eITS Ticket # 210300300] FW-Update (FDS) Firmware Download Service
DHCP	1. [#144272] [eITS Ticket # 210300101] WX3401, ACS URL via DHCP opt

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	1. [#143625] [MPro Mesh_Agent] All Extender name display the same in APP 2. [#143781] [Wireless] Changing the 5G's Bandwidth is 20/40/80MHz and Channel is 100~112, GUI will logout and change unsuccessfully 3. [#143902] [Wireless] Click WPS button from WX3401-B0 GUI, but uplink connection will fail and console show ERROR code 4. [#144653] [MPro Mesh] ZyPark Multy Pro stress test environment, it will cause "zyMAPSteer" daemon to Disappear 5. [#144653] [MPro Mesh] ZyPark Multy Pro stress test environment, it will cause "zyMAPSteer" daemon to Disappear 6. [#145514] [MPro Mesh] Onboarding WX3401_Agent, but it frequent disconnection to controller 7. [#145295] Disable non 11v clients steering 8. [#144979] WX3401 Steering-log stops updating after 50 entries 9. [#144094] [Wireless] Testing WX3401-B0 wireless throughput by IxChariot, the performances are bad on 2.4G and 5G Tx/Rx/BI 10. [#143727] [MPro Mesh_Agent] If end client connect to extender, that client's Max Speed and RSSI keep in updating status

	<p>11. [#135955] [MPro Mesh][GUI] Please hide Steering status page on GUI if WX3401 is not Controller mode.</p> <p>12. [#135880] [MPro Mesh_Agent] Client should not access APP and controller GUI when client connected controller or agent Guest WiFi</p> <p>13. [#136820] [MPro Mesh] AP_Agent be listed in WiFi category in Connectivity page after RP_Agent reboot then connect Controller WiFi_Backhaul.</p> <p>14. [#136827] [MPro Mesh] The host type are incorrect for AP_Agent & RP_Agent in TR.</p> <p>15. [#136921] [MPro Mesh_Agent] Extender-AP connection type is show wrong when after reboot controller</p> <p>16. [#137454] [MPro Mesh] Controller wifi setting auto sync to extender, Console will display all wifi SSID and passwords</p> <p>17. [#137883] [MPro Mesh] AP_Agent will display in WiFi category after onboarding RP_Agent.</p> <p>18. [#137891] [MPro Mesh] GPV: Device.Hosts. , some of value return incorrect.</p>
Vulnerability	<p>1. [#144600] [Vulnerability] [WX3401-B0] UPnP protocol can be abused to perform DDoS and/or data exfiltration via SUBSCRIBE capability</p> <p>2. [#144628] [Vulnerability] [WX3401-B0] Dnsmasq multiple vulnerabilities (DNSPooq)</p> <p>3. [#144629] [Vulnerability] [WX3401-B0][Openssl] Correctly compare EdiPartyName in GENERAL_NAME_cmp()</p> <p>4. [#144630] [Vulnerability] [WX3401-B0] Unsafe Storage of Sensitive Data</p> <p>5. [#144631] Vulnerability] [WX3401-B0][CVE-2020-1971][Openssl] Correctly compare EdiPartyName in GENERAL_NAME_cmp()</p> <p>6. [#145268] [Vulnerability] [WX3401-B0] VMG8623-T50B - CVE-2019-11358 vulnerability</p>

Modifications in 5.17(ABVE.1)b1

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> 1. [#137305] [eITS Ticket # 201000137] AP will not pass traffic, 5G backhaul disappear 2. [#132250] [Stress] WX3401 will disconnect with EX5501 after 27 2.4G pi client start to connect. 3. [#130878] [Wireless] WX3401 5G uplink and downlink will disconnect after 64 client connect (RP mode, AP mode have same issue)

Modifications in 5.17(ABVE.0)C0

Based on V5.17(ABVE.0)b8 to release V5.17(ABVE.0)C0

Modifications in 5.17(ABVE.0)b8

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	1. [eits #201000137] repeater failed to connect back to gateway

Modifications in 5.17(ABVE.0)b7

● Bug Fixed

Modified Modules	Bug Fixed List
WLAN	<ol style="list-style-type: none"> 1. [#134721][eits #200801674] WX3401, pairing fails 2. [#134258][eits #200800925] WX3401 - Mpro Mesh App

Modifications in 5.17(ABVE.0)b6

● Feature Enhancement

Modified	Features Enhancement List
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Modules	

- Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.17(ABVE.0)b5

- Feature Enhancement

Modified Modules	Features Enhancement List

- Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.17(ABVE.0)b4

- Feature Enhancement

Modified Modules	Features Enhancement List

- Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.17(ABVE.0)b3**● Feature Enhancement**

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.17(ABVE.0)b2**● Feature Enhancement**

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.17(ABVE.0)b1**● Feature Enhancement**

Modified Modules	Features Enhancement List

● Bug Fixed

Modified	Bug Fixed List
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Modules	