

EX5600-T0/EX5601-T0/ EX5600-T1/EX5601-T1 Generic

Firmware Release Note

V5.70(ACDZ.3.6)C0

Date: Nov. 25, 2024

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Reviewer:

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Revision History

Date	Release	Author	Description
2022/04/06	1.0	Frank Chang	FW release for V5.70(ACDZ.0)b1
2022/05/23	2.0	Frank Chang	FW release for V5.70(ACDZ.0)b2
2022/06/22	3.0	Winnie Wen	FW release for V5.70(ACDZ.0)b3
2022/07/18	4.0	Frank Chang	FW release for V5.70(ACDZ.0)b4
2022/08/08	5.0	Frank Chang	FW release for V5.70(ACDZ.0)b5
2022/08/29	6.0	Frank Chang	FW release for V5.70(ACDZ.0)b6
2022/09/05	7.0	Frank Chang	FW release for V5.70(ACDZ.0)b7
2022/09/08	8.0	Frank Chang	FW release for V5.70(ACDZ.0)C0
2022/09/27	9.0	Frank Chang	FW release for V5.70(ACDZ.1)b1
2022/11/04	10.0	Frank Chang	FW release for V5.70(ACDZ.1)b2
2022/11/30	11.0	Frank Chang	FW release for V5.70(ACDZ.1)b3
2022/12/19	12.0	Frank Chang	FW release for V5.70(ACDZ.1)b4
2022/12/26	13.0	Frank Chang	FW release for V5.70(ACDZ.1)b5
2022/12/30	14.0	Frank Chang	FW release for V5.70(ACDZ.1)C0
2023/02/24	15.0	Frank Chang	FW release for V5.70(ACDZ.2)b1
2023/04/28	16.0	Frank Chang	FW release for V5.70(ACDZ.2)b2
2023/06/16	17.0	Frank Chang	FW release for V5.70(ACDZ.2)b3
2023/07/28	18.0	Frank Chang	FW release for V5.70(ACDZ.2)b4
2023/09/01	19.0	Frank Chang	FW release for V5.70(ACDZ.2)C0
2023/10/20	20.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3)b1
2023/12/29	21.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3)b2
2024/03/01	22.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3)b3
2024/04/08	23.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3)b4
2024/04/24	24.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3)C0
2024/06/14	25.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3.1)b1
2024/06/14	26.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3.1)C0
2024/06/28	27.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3.2)b1
2024/06/28	28.0	Yen-Chun Lin	FW release for

			V5.70(ACDZ.3.2)C0
2024/10/04	29.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3.4)b1
2024/10/04	30.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3.4)C0
2024/11/25	31.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3.6)b1
2024/11/25	32.0	Yen-Chun Lin	FW release for V5.70(ACDZ.3.6)C0

EX5600-T0/EX5601-T0/EX5600-T1/EX5601-T1
Generic
V5.70(ACDZ.3.6)C0
Release Note

Date: Nov. 25, 2024

Supported Platforms:

Zyxel EX5600-T0/EX5601-T0/EX5600-T1/EX5601-T1 Generic

Versions:

Bootbase version : V2.7 | 10/20/2023 08:21:21

Firmware version : V5.70(ACDZ.3.6)C0

Kernel version: 5.4.171

WLAN code version: 7.6.2.5

3G WWAN package version: 1.24

D2 DSP package version: HERMAN4 GW 2.4 Release 5.6

Notes:

Public Domain Software Announcements

Open Source Used (3rd party software)	Version	From (Source)	Licensing Term	Modified / Used
alsa-lib	1.2.4	https://ftp.osuosl.org/pub/blfs/conglomeration/alsa-lib/alsa-lib-1.2.4.tar.bz2	LGPLv2.1	Used
alsa-ucm-conf	1.2.4	https://www.alsa-project.org/files/pub/lib/alsa-ucm-conf-1.2.4.tar.bz2	BSD 3-Clause	Used
alsa-utils	1.2.4	https://ftp.osuosl.org/pub/blfs/conglomeration/alsa-utils/alsa-utils-1.2.4.tar.bz2	GPLv2	Used
argp-standalone	1.3	http://sources.buildroot.net/argp-standalone/argp-standalone-1.3.tar.gz	LGPLv2	Used
atftp	0.7.4	https://sourceforge.net/projects/atftp/	GPLv2	Modified
attr	2.4.48	http://savannah.nongnu.org/projects/attr	GPLv2	Used
binutils	2.35.1	https://sourceware.org/pub/binutils/releases/	GPLv2	Used
bridge-utils	1.7	http://www.linuxfromscratch.org/blfs/view/svn/basicnet/bridge-utils.html	GPLv2	Modified
busybox	1.31.1	https://busybox.net/	GPLv2	Modified
bwm-ng	0.6.1	http://www.grobb.org/?id=projects&sub=bwm-ng	GPLv2	Modified
bzip2	1.0.8	http://sources.buildroot.net/bzip2/bzip2-1.0.8.tar.gz	BSD-style license	Modified
ca-certificates	20210119	http://ftp.debian.org/debian/pool/main/c/ca-certificates/ca-certificates_20210119.tar.xz	GPLv2	Used
c-ares	1.17.2	https://c-ares.haxx.se/download	c-ares license	Modified
cgi-io	44447	https://firmware.download.immortalwrt.eu.org/package-sources/cgi-io-2021-09-08-98cef9dd.tar.xz	ISC	Used
clinkc	2.4	https://sourceforge.net/projects/clinkc/	BSD	Modified
conntrack-t	1.4.6	https://git.netfilter.org/conntrack-tools/	GPLv2	Used

ools				
curl	8.4.0	https://curl.se/	MIT	Modified
Berkeley DB	4.7.25.NC	https://src.fedoraproject.org/lookaside/extras/nss_db/db-4.7.25.NC.tar.gz/073ab7f20d24b3872a51ca762f5090e7/db-4.7.25.NC.tar.gz	Sleepycat	Modified
dnsmasq	2.85	http://www.thekelleys.org.uk/dnsmasq/doc.html	GPLv2/GPLv3	Modified
dropbear	2022.83	https://github.com/mkj/dropbear	MIT	Modified
ebtables	2018-06-27-48cff25d	https://git.netfilter.org/ebtables/	GPLv2	Modified
elfutils	0.18	https://fedorahosted.org/elfutils/	GPLv2/GPLv3/LGPLv3	Modified
ethtool	5.1	http://www.kernel.org/pub/software/network/ethtool/	GPLv2	Used
eventlog	0.2.10	https://github.com/balabit/eventlog	BSD	Used
expat	2.5.0	https://github.com/libexpat/libexpat	MIT	Used
ez-ipupdate	3.0.11b8	http://ez-ipupdate.com/	GPLv2	Modified
ffmpeg	4.3.1	https://ffmpeg.org/releases/	GPLv2/GPLv3/LGPLv2.1/LGPLv3	Modified
flac	1.3.3	https://downloads.xiph.org/releases/flac/	GPLv2/LGPLv2.1	Modified
fstools	2021-01-04-c53b1882	https://sources.openwrt.org/fstools-2021-01-04-c53b1882.tar.xz	GPLv2	Modified
fwtool	2019-11-12-8f7fe925	https://openwrt.org/packages/pkgdata/fwtool	GPLv2	Used
gdbm	1.18.1	https://www.gnu.org/software/gdbm/	GPLv3	Modified
gettext	0.19.8.1	http://www.gnu.org/software/gettext/	GPLv3	Used
glib	2.68.4	http://www.gtk.org/	LGPLv2.1	Used
gmp	6.2.1	http://gmplib.org/	GPLv3	Used
gnutls	3.7.1	http://www.gnutls.org/	GPLv2 + LGPLv2.1	Modified
i2c-tools	4.3	https://i2c.wiki.kernel.org/index.php/I2C_Tools	GPLv2 + LGPL	Used

			v2.1	
iproute2	5.11.0	https://github.com/shemminger/iproute2	GPLv2	Modified
iptables	1.8.7	https://git.netfilter.org/iptables/	GPLv2	Modified
iw	5.9-8fab0c9e	http://wireless.kernel.org/en/users/Documentation/iw	ISC	Modified
json-c	0.15	https://github.com/json-c/json-c/downloads	MIT	Modified
jsonfilter	2018-02-04-c7e938d6	http://git.openwrt.org/?p=project/jsonpath.git	ISC	Modified
kmod	27	https://www.kernel.org/pub/linux/utils/kernel/kmod/	LGPL2.1	Used
lame	3.1	http://sourceforge.net/projects/lame	LGPLv2	Used
libcap	2.43	https://www.kernel.org/pub/linux/libs/security/linux-privs/libcap2/	GPLv2	Modified
libcap-ng	0.8.1	https://people.redhat.com/sgrubb/libcap-ng/index.html	GPLv2+LGPL2.1	Used
libdbi	0.9.0	http://libdbi.sourceforge.net/	LGPL2.1	Used
libedit	20210419-3.1	http://pkgs.fedoraproject.org/repo/pkgs/libedit/libedit-20080712-2.11.tar.gz /	BSD	Modified
libexif	0.6.22	https://libexif.github.io/	LGPL2.1	Modified
libffi	3.3	http://pkgs.fedoraproject.org/repo/pkgs/libffi/libffi-3.0.11.tar.gz/	MIT	Used
libgcrypt	1.8.7	https://www.gnupg.org/related_software/libgcrypt/	GPLv2+LGPL2.1+ BSD_3Clause+ X License+Public domain+ OCB license 1	Used
libgpg-error	1.42	https://www.gnupg.org/related_software/libgpg-error/	GPLv2+LGPL2.1	Modified
libgpod	1.4.4	https://git.kernel.org/pub/scm/libs/libgpod/libgpod.git	LGPL2.1	Used
libiconv	1.16	https://ftp.gnu.org/gnu/libiconv/libiconv-1.16.tar.gz	GPLv3/LGPLv2	Modified
libid3tag	0.15.1b	http://mad.sourceforge.net/	GPLv2	Used
libjpeg-turb	2.0.6	https://www.libjpeg-turbo.org/	IJG License + BSD	Used

o			3-clause License + zlib License	
libmnl	1.0.4	http://www.netfilter.org/projects/libmnl/	LGPLv2.1	Modified
libnetfilter_ conntrack	1.0.8	https://git.netfilter.org/libnetfilter_conntrack/	GPLv2	Used
libnetfilter- cthelper	1.0.0	http://www.netfilter.org/projects/libnetfilter_cthelper/	GPLv2	Used
libnetfilter_ cttimeout	1.0.0	http://www.netfilter.org/projects/libnetfilter_cttimeout/	GPLv2	Used
libnetfilter_ queue	1.0.5	https://git.netfilter.org/libnetfilter_queue/	GPLv2	Used
libnfnetlink	1.0.1	https://git.netfilter.org/libnfnetlink/	GPLv2	Used
libnl	3.5.0	http://www.infradead.org/~tgr/libnl/	LGPLv2.1	Modified
libnl-tiny	2020-08-05- c291088f	https://github.com/openwrt/openwrt/tree/master/package/libs/libnl-tiny	LGPLv2.1	Modified
libogg	1.3.4	https://downloads.xiph.org/releases/ogg/	BSD 3-Clause	Used
libpcap	1.9.1	www.tcpdump.org	BSD 3-Clause	Used
libselinux	3.2	https://github.com/SELinuxProject/selinux/releases/download/3.2	public domain	Used
libsepol	3.2	https://github.com/SELinuxProject/selinux/releases/download/3.2	LGPLv2.1	Used
libsrtp	1.6.0	http://oss.metaparadigm.com/json-c/	BSD	Modified
libstrophe	0.10.0	https://codeload.github.com/strophe/libstrophe/tar.gz/	GPLv3	Modified
libtirpc	1.3.2	http://libtirpc.sourceforge.net/	BSD	Modified
libtool	2.4.6	http://www.gnu.org/software/libtool/	GPLv2	Used
libubox	2021-05-16- b14c4688	http://mirror.greenwavereality.com/openwrt/	ISC	Used
libusb	1.0.24	https://sourceforge.net/projects/libusb/	LGPL 2.1	Used
libvorbis	1.3.7	http://downloads.xiph.org/releases/vorbis/	BSD	Used
libxml2	2.9.12	http://xmlsoft.org/sources/	MIT	Used
Linux/Arm	5.4.171	http://ftp.ntu.edu.tw/pub/linux/kernel/v5.x/	GPLv2	Modified

Kernel				fied
logrotate	3.17.0	https://launchpad.net/ubuntu/hardy/i386/logrotate/	GPLv2	Modi fied
lua	5.1.5	http://www.tecgraf.puc-rio.br/lua/ftp/	MIT	Modi fied
lua	5.3.5	http://www.tecgraf.puc-rio.br/lua/ftp/	MIT	Modi fied
luasocket	2019-04-21- 733af884	https://github.com/diegonehab/luasocket	MIT	Modi fied
lucihttp	2021-06-11- 3dc89af4	https://github.com/jow-/lucihttp.git	MIT	Used
lxc	2.0.4	https://linuxcontainers.org/lxc/downloads/	LGPLv2.1/GPLv2	Modi fied
mailsend	1.19	https://github.com/muquit/mailsend/	BSD	Modi fied
mbedtls	2.16.11	https://codeload.github.com/ARMmbed/mbedtls/tar.gz/v2.16.11	GPLv2	Modi fied
minidlna	1.3.0	https://sourceforge.net/projects/minidlna/files/minidlna/1.3.0/	GPLv2/BSD	Modi fied
musl-fts	1.2.7	https://github.com/pullmoll/musl-fts.git	BSD 3-Clause	Used
nbtscan	1.5.1a	http://ftp.debian.org/debian/pool/main/n/nbtscan/	GPLv2	Used
ncurses	6.2	http://ftp.gnu.org/pub/gnu/ncurses/	MIT with exception	Modi fied
net-snmp	5.8	http://www.net-snmp.org/	BSD/BSD-like	Modi fied
nettle	3.6	https://ftp.gnu.org/gnu/nettle/	GPLv2/LGPLv3	Modi fied
nghttp2	1.43.0	https://osdn.net/projects/immortalwrt/storage/sources/nghttp2-1.43.0.tar.xz/	MIT	Used
ntfs-3g	2022.10.3	http://ntfs-3g.org	GPLv2/LGPLv2	Used
ntpcient	2015_365	http://doolittle.icarus.com/ntpcient/	GPLv2	Modi fied
omcproxy	2018-12-14- 722151f0	https://osdn.net/projects/immortalwrt/storage/sources/omcproxy-2018-12-14-722151f0.tar.xz/	Apache License v2	Modi fied
openssl	3.1.2	http://www.openssl.org	OpenSSL	Modi fied

pciutils	3.7.0	https://github.com/yifengyou/pciutils-3.7.0	GPLv2	Modified
pcrc	8.44	https://sourceforge.net/projects/pcrc/files/pcrc/8.44/	PCRE LICENCE	Used
popt	1.16	http://rpm5.org/files/popt/	MIT	Modified
ppp	2.4.3	http://www.roaringpenguin.com/pppoe	GPLv2/BSD	Modified
pptp	1.7.1	https://sourceforge.net/projects/pptpclient/files/pptp/pptp-1.7.1/	GPLv2	Used
procd	2021-02-23-37eed131	https://downloads.openwrt.org/releases/21.02.1/targets/arc770/generic/openwrt-21.02.1-arc770-generic-default.manifest	LGPL v2.1	Modified
pure-ftpd	1.0.50	http://pureftpd.org	ISC/BSD	Modified
radvd	1.8	http://www.litech.org/radvd/	BSD	Used
readline	8.1	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	GPLv3	Used
resolveip	2	https://github.com/openwrt/openwrt/tree/openwrt-21.02/package/network/utils/resolveip	GPLv2	Used
rp-pppoe	3.14	https://dianne.skoll.ca/projects/rp-pppoe/download	GPLv2	Modified
samba	3.6.25	https://download.samba.org/pub/samba/samba-3.6.25.tar.gz	GPLv3	Modified
sqlite	3330000	http://www.sqlite.org/	Public Domain License	Used
swconfig	12	https://github.com/openwrt-mirror/openwrt/blob/master/target/linux/generic/files/drivers/net/phy/swconfig.c	GPLv2	Used
syslog-ng	3.38.1	https://github.com/balabit/syslog-ng	GPLv2	Used
tcpdump	4.99.4	http://www.tcpdump.org/	BSD	Used
u-boot	2021.01	https://source.denx.de/u-boot/u-boot	BSD 2-clause / BSD 3-clause /eCos-2.0 / GPLv2 / ibm-pibs / ISC / LGPLv2.0 / LGPLv2.1 / MIT / OFL / X11 License / Others	Used

ubox	2020-10-25-9ef88681	https://git.openwrt.org/project/ubox.git	GPLv2	Used
ubus	2021-06-30-4fc532c8	https://git.openwrt.org/?p=project/ubus.git;a=shortlog	LGPLv2.1	Used
uci	2020-10-06-52bbc99f	https://git.openwrt.org/project/uci.git	LGPLv2.1	Used
uclient	2021-05-14-6a6011df	https://git.openwrt.org/project/uclient.git	ISC	Used
udhcp	0.9.8	http://udhcp.busybox.net/	GPLv2	Modified
unbound	1.14.0	https://nlnetlabs.nl/downloads/unbound/	BSD 3 Clause	Modified
urandom-seed	3	https://github.com/ntlf9t/openwrt-1/blob/master/package/system/urandom-seed/files/etc/init.d/urandom_seed	GPLv2	Used
urngd	2020-01-21-c7f7b6b6	http://mirror.greenwavereality.com/openwrt/	GPLv2	Used
usb-modeswitch	2.1.0	http://www.draisberghof.de/usb_modeswitch/	GPLv2	Used
usign	2020-05-23-f1f65026	https://download.iopsys.eu/iopsys/mirror/usign-2020-05-23-f1f65026.tar.xz	ISC	Used
ustream-ssl	2020-12-10-68d09243	https://github.com/KoWming/Openwrt-LEDE-dl/blob/main/ustream-ssl-2020-12-10-68d09243.tar.xz	ISC	Used
util-linux	2.36.1	https://github.com/karelzak/util-linux/	GPLv2	Used
vim	9.0	http://ftp.vim.org/pub/vim/unix	VIM LICENSE	Modified
wide-dhcpv6	20080615	https://sourceforge.net/projects/wide-dhcpv6/	BSD	Modified
wireless-regdb	2021.08.28	https://git.kernel.org/pub/scm/linux/kernel/git/sforshee/wireless-regdb.git/	ISC	Modified
wireless-tools	29	https://hewlettpackard.github.io/wireless-tools	GPLv2	Modified
wolfssl	4.8.1-stable	http://www.wolfssl.com/	GPLv2	Modified
wsdd2	2021-08-09-bcc51c3e	https://github.com/Netgear/wsdd2	GPLv3	Used

xl2tpd	1.3.16	https://github.com/xelerance/xl2tpd.git	GPLv2	Modified
xz	5.2.5	https://tukaani.org/xz	XZ Utils Licensing	Modified
zlib	1.2.11	https://github.com/madler/zlib	zlib	Used
zoneinfo	2021a	https://www.iana.org/time-zones/repository/releases/tzcode2021a.tar.gz https://www.iana.org/time-zones/repository/releases/tzdata2021a.tar.gz	BSD 3-clause	Modified
miniupnpd	2.3.1	https://github.com/miniupnp/miniupnp	BSD-3-Clause	Used
quagga	1.2.4	https://github.com/Quagga/quagga	GPLv2	Used

Known issues

Modules	Issue	Risk Impact Information

Notification

1. OpenSSL 3.1.2 Upgrade Notification

The certificates signed using SHA1 or older/weaker hashes are no longer supported for authenticating servers or clients.

Before upgrading the firmware:

- Please ensure that certificates in your devices are not using weak hashes.
- If weak hashes are detected, kindly update and verify your certificates promptly with stronger hash
(The minimum recommended hash is SHA256)

Modifications in 5.70(ACDZ.3.6)C0

Based on V5.70(ACDZ.3.6)b1 to release FCS version

Modifications in 5.70(ACDZ.3.6)b1

● Bug Fixed

Modified	Bug Fixed List
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Modules	
WAN	1. [eITS#241101106] EX5601 - MAC address delegation on default WAN interface changed from 3.2C0 to 3.4C0

Modifications in 5.70(ACDZ.3.4)C0

Based on V5.70(ACDZ.3.4)b1 to release FCS version

Modifications in 5.70(ACDZ.3.4)b1

● Bug Fixed

Modified Modules	Bug Fixed List
Vulnerability	1. [CVE-2024-8748] [Zyxel-SI-1576] [Vulnerability] Unauthenticated buffer overflow in VMG8825-T50 2. [CVE-2024-20017] [Vulnerability] Improper input validation in wlan service 3. [CVE-2024-9197] [Zyxel-SI-1583] [Vulnerability] Buffer overflow and potential command injection vulnerabilities in VMG3625-T50B (Medium)
Wi-Fi	1. [EX5601-T1] Latency spikes - Lifemote commands 2. [eITS#240900277] EX5601-T0 - Wi-Fi (5GHz) issue
WAN	1. [EX5601-T0] [WAN] EX5601 should support 8 WAN interfaces

Modifications in 5.70(ACDZ.3.2)C0

Based on V5.70(ACDZ.3.2)b1 to release FCS version

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.70(ACDZ.3.2)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
WebGUI	1. [eITS#240600745] Rejecting firmware due to WebGUI https CA handling and http shut down decision

● Bug Fixed

Modified Modules	Bug Fixed List
Vulnerability	1. [CVE-2024-38266, 38267, 38268, 38269][Zyxel-SI-1559][Vulnerability] Multiple authenticated buffer overflow vulnerabilities

Modifications in 5.70(ACDZ.3.1)C0

Based on V5.70(ACDZ.3.1)b1 to release FCS version

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.70(ACDZ.3.1)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified	Bug Fixed List
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Modules	
TR069	<ol style="list-style-type: none"> [eITS#240501006] TR069 communication issues after patch to 3C0 [eITS#240400570] TR069 process dies
Vulnerability	<ol style="list-style-type: none"> [CVE-2024-5412][Zyxel-SI-1557][Vulnerability] Unauthenticated heap buffer overflow in the libclinkc library.

Modifications in 5.70(ACDZ.3)C0

Based on V5.70(ACDZ.3)b4 to release FCS version

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.70(ACDZ.3)b4

● Bug Fixed

Modified Modules	Bug Fixed List
Rom-D	<ol style="list-style-type: none"> [eITS#240300263] EX5601, Applying up to date custom romd based on newer FW on field devices turns them generic
TR-069	<ol style="list-style-type: none"> [eITS#240300709] EX5601, Slow tr069 SPV replies starting from 2C0/2.1C0 [eITS#240200784] GPN Device.WiFi. fail [eITS#240300581] EX5601 + Opal Family, iPerf from TR069 fail if the iPerf parameters are sent in separate SPVs
VoIP	<ol style="list-style-type: none"> [eITS#240101401] CPE cannot receive Some Incoming Calls after Huawei adds the new SIP service port 5062 to the Soft

	Switch (SS).
Wi-Fi	1. [eITS#240301183] EX5601, Auto Channel Selection feature broken in 2.1C0

Modifications in 5.70(ACDZ.3)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	1. [eITS#230701557][EX5601-T1] Show info which LAN port is connected the client.
CLI	1. [eITS#231200465] Feature improvement request - WAN ip lease time

● Bug Fixed

Modified Modules	Bug Fixed List
VLAN auto hunt	1. [eITS#231200545][EX5601-T1] VLAN Auto hunt doesn't work
GUI	1. [eITS#240100804] EX5601, Conditionally unable to open Connectivity List and add new Parental Control rule
TFTP	1. [eITS#231200824] EX5601, CPE not allowing STB to download firmware using TFTP.
Vulnerability	1. [CVE-2024-0816][Zyxel-SI-1536] [Vulnerability] Buffer overflow vulnerability in the "traceroute" command
TR-069	1. [eITS#240101103] EX5601, unable to disable wifi triggered directly from bootstrap event
Wi-Fi	1. [eITS#240100978] EX5601, Unable to connect to Main SSID with AX201 with guest network enabled.

Modifications in 5.70(ACDZ.3)b2

Based on V5.70(ACDZ.3)b1 to release V5.70(ACDZ.3)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
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APP	1. [eITS#230300767] EX5601, MProMesh App feature request to include guest isolation level
DHCP	1. [eITS#231000756] DHCP opt 12
WAN	1. [eITS#231001139] EX5601, CCWAN bridge method not working
TR-069	1. [eITS#231100694] EX5601, Feature enhancement request: Support larger manual sfp-list
TR-098	1. [eITS#231101419] How to change DOS Protection Blocking with TR098
Wi-Fi	1. [eITS#231000006] ZYX-593 IoT SSID (FRQ to propagate 3 parameters from the controller to the agents)
TR-369	1. [eITS#231000272] EX5601-T1 - Certificate management for websocket 2. [eITS#231001817] EX5601-T1 - Web GUI configuration for websocket

● Bug Fixed

Modified Modules	Bug Fixed List
RIP	1. [eITS#230900366] Request to RIPv2
Wi-Fi	1. [eITS#230500422] EX5601, Multicast over mesh wifi 2. [eITS#231101238] EX5601, iwpriv <i> show stainfo incomplete results
WAN	1. [eITS#231001136] EX5601, Bridge mode with interface grouping not working 2. [eITS#231101317] EX5601, Disconnecting then reconnecting WAN makes changes to WAN interfaces
VoIP	1. [eITS#231001751] EX5601 / FXS Increasing Ring Delay / GBR Region

Modifications in 5.70(ACDZ.3)b1

Based on V5.70(ACDZ.2)b4 to release V5.70(ACDZ.3)b1

● Feature Enhancement

Modified	Features Enhancement List
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Modules	
F-secure	Container based F-secure
MProMesh	[eITS#230300767]EX5601, MProMesh App feature request to include guest isolation level
CLI	<ol style="list-style-type: none"> [eITS#230300971] Display remaining lease time of WAN IP lease in CLI, see ticket 230101253 [eITS#230500277] Support CLI cfg command to show IGMP snooping status.
LAN	[eITS#230301802]EX5601, Feature enhancement - Add connected LANport to client information
GUI	<ol style="list-style-type: none"> [eITS#230400473] Support SFP information page on GUI. [EX5601-T0] Add GPON status on GUI
Wi-Fi	[eITS#230600450] EX5601 Wireless Network Max clients increase to 64
SFP	<ol style="list-style-type: none"> [eITS#230801026] IOP problem Skylane transceiver 2.5G EX 5601-T0 [eITS#231000755] SFP power RX/TX
OCAC	OCAC enhancement based on CE regulation
TR-369	<ol style="list-style-type: none"> Support TR369 feature. [eITS#230900654][AXIROS] EX5601-T1 - implementation request / WebSocket
LED Control	[eITS#230400862] Support LED control feature.
XMPP	[eITS#230601075] XMPP / STUN server support
Security	<ol style="list-style-type: none"> [Security] Setting Up the Password Strength disable console pin via software upgrade OpenSSL to 3.1.2 [CVE-2023-37929][Zyxel-SI-1506][Vulnerability] Post-authentication buffer overflow. Upgrade curl to 8.4.0

● Bug Fixed

Modified Modules	Bug Fixed List
Wi-Fi	1. [eITS#230500422]EX5601, Multicast over mesh wifi

	2. [eITS#230300715] Some iPads fail to reconnect to MESH after sleep mode.
Security	1. [Security] Unauthenticated Access to APIs 2. [Security] Session/Cookie Security Test 3. [Security] Outdated Software 4. [Security] Header Security Test

Modifications in 5.70(ACDZ.2)C0

Based on V5.70(ACDZ.2)b4 to release V5.70(ACDZ.2)C0

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.70(ACDZ.2)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
Wireless	[#192799] [Eye Networks] EX5601-T0, SSID naming logic when disabling mesh and allowing separate SSIDs
SFP	[#193175] [eITS#230700225] Request for support of Fibrenet BiDi Active Ethernet SFP [#192797] [eITS#230700001][L?necom] Active Fiber SFP Transceiver works not in the EX5601-T0
GUI	[#195668] [CVE-2011-5053][Zyxel-SI-1498][Vulnerability] WPS vulnerability on CPE in WLAN

● Bug Fixed

Modified Modules	Bug Fixed List
SYSTEM	[#191845] [System] The CPE will hang & console show FQ Empty after do throughput or stress test [#189320] [eITS#230500282]EX5601, PeriodicInformTime not acting as according to specification in terms of UTC.
WAN	[#191478] [eITS#230600405]HyperOptic-DHCPv6-ONT/OLT issue
SYSTEM	
Throughput	
DNS	
TR-069	
Security	
WAN	

Modifications in 5.70(ACDZ.2)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
SFP	[#189291] [eITS#230401145]Request for support of fs.com BiDi Active Ethernet SFP
System	[#188968] [eITS#230401200]EX5601, Support for TR-069 configurable Energy-Efficient Ethernet(EEE)

● Bug Fixed

Modified Modules	Bug Fixed List
SYSTEM	[#190803] [eITS#230501661][EX5601-T1] Missed separator in the

	logs.
Throughput	[#189280] [eITS#230400229][CETIN] EX5601-T1 - low throughput in DS
DNS	[#188692] [eITS#230400106][Ogi] EX3301-T0 / DNSProxy issue when Primary DNS unreachable
TR-069	[#186804] [eITS#230300900]EX5601, Add support for iperf initiated from TR069
Security	[#185449] [eITS#230300165]EX5601, How to configure parental control from cli? [#190139] [eITS#230500907][Digimobil] Possible security flaw that allows to retrieve root password
WAN	[#190636] [eITS#230500783][Wemacom] no IPv4 connection via DSLite [#189673] [WAN] The CPE can't recognize HUAWEI E173 dongle [#190882] [eITS#230501450]EX5601-T0 / DHCPv6 lease not renewed [#189791] [eITS#230200637][Wemacom] DS-Lite IPv4 Data throughput to low [#185607] [eITS#230300429]EX5601, certificate Common Name doesn't match host name

Modifications in 5.70(ACDZ.2)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
MPro Mesh	[#182873] [eITS#230101291] EX5601, Disabling Mesh does not bring down the backhaul, which is still broadcasted as a hidden SSID
WAN	[#184830] Configuration of the AFTR should be possible with URL [#184825] DHCP option providing CPE firmware version
Wireless	[#182232] [eITS#230100596] EX5601, SSID naming logic when disabling mesh and allowing separate SSIDs

	[#183723] [eITS#230200422]EX5601-Tx TR-098 support for WiFi X_ZYXEL_CountryCode [#184733] [OPAL Generic] Change WPS button trigger condition [#188529] change the wording in SteerStatus
SFP	[#185524] [eITS#230300382]EX5601, Support for SFP: FS SFP-GE-BX [#185527] [eITS#230300384]EX5601, Support for SFP: CISCO-SO GLC-BX-U

● Bug Fixed

Modified Modules	Bug Fixed List
SYSTEM	[#184980] [System] GUI can't show any log info [#185736] [System] The DST file & GUI value are not corresponding [#185613] [System] The zhttpd will be restarted if restore ROMD configuration file and then login GUI.
Document	[#184976] [PS] RD need provide engineer & production firmware to PQA
WAN	[#165358] [WAN] CPE does not support MAP-E/MAP-T.
Throughput	[#185629] [Throughput] The wired throughput can not reach Link Rate 90% at both SFP and ETH WAN. [#186374] [DX5401] Very low Guest WiFi throughput.
NAT	[#185066] [NAT] The CPE should support NAT PCP function (For Generic version)
MPro Mesh	[#186474] [MPro Mesh] The "stale=Yes" scenario occurs during the AP roaming test. [#186468] [MPro Mesh_Agent] After using "MPro Mesh" APP to logout or swipe up the screen to close it or enable wifi guest, it will always lead APP relogin fail. [#185927] [MPro Mesh_APP] Set one client to blocking the internet via APP failed.
LAN	[#185279] [LAN] Interface group function can't work, Lan/Wlan can't get ip address.
VOIP	[#183043] [EX5601-T0] [VoIP] The FXS port are not match between GUI & CPE

Modifications in 5.70(ACDZ.2)b1

● Feature Enhancement

Modified Modules	Features Enhancement List
SYSTEM	[#182246] [ETSI EN 303 645] 5.8-2: The confidentiality of sensitive personal data communicated between the device and associated services shall be protected, with cryptography appropriate to the properties of the technology and usage. [#182237] [ETSI EN 303 645] The consumer IoT device shall protect the confidentiality of critical security parameters that are communicated via remotely accessible network interfaces [#182227] [ETSI EN 303 645] 5.3-2: When the device is not a constrained device, it shall have an update mechanism for the secure installation of updates. [#184772] Console redirect/Zconsole monitor [#178784] OPAL, Partial factory reset option with firmware upgrades. (tr069/gui) 220701077
GUI	[#184838] Support Web http redirect to https. [#184756] [OPAL Generic] GUI translation_ES_NL
SFP	[#177679] [EX5601-T0] [#221100421] EX5601, manual sfp-list feature
MPro Mesh	[#184213] [OPAL Regular] support APP 3.0
LAN	[#182349] [EX5601-T0] [eITS#230100744] EX5601, bridge config improvement
VOIP	[#178369] [EX5601-T0] Grain IT - TLS encrypt the SIP signalling [#178263] [EX5601-T0] Grain IT - SIP Encryption- SRTP

● Bug Fixed

Modified Modules	Bug Fixed List
SYSTEM	[#177463] Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability, for

	EX5601-T0/EX5601-T1/EX5600-T1 Generic
Stress	[#175425] [Stress] [Time:1 hrs][Occurs: 3 times]TR-069 firmware upgrade stress happen call trace and coredump , Lan can't get ip address.

Modifications in 5.70(ACDZ.1)C0

Based on V5.70(ACDZ.1)b5 to release V5.70(ACDZ.1)C0

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.70(ACDZ.1)b5

● Feature Enhancement

Modified Modules	Features Enhancement List
Wireless	[#180986] EX5601-T0 supports the UNII-3 band
SFP	[#180954] Feature [#221201116] EX5601-T0 SFP support request
System	[#175946] Zyxel-SI-1433 [Vulnerability] Buffer overflow vulnerabilities and command injection vulnerability for EX5601-T0 Generic

● Bug Fixed

Modified Modules	Bug Fixed List
MPro Mesh	[#181121] [MPro Mesh] Check ps on console, it has more & more

	sh process.
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Modifications in 5.70(ACDZ.1)b4

● Feature Enhancement

Modified Modules	Features Enhancement List
SFP	[#178316] EX5601, CTS SFP support #1 #221101107 [#174524] EX5601, Add SFP support #220901595 [#178315] EX5601, CTS SFP support #2 #221101108 [#178061] EX5601-T0 SFP support #221100449

● Bug Fixed

Modified Modules	Bug Fixed List
TR-069	[#180452] EX5601, TransferComplete messages without Start/Complete Time value, reference: 221100865
STRESS	[#175425] [Stress] [Time:1 hrs][Occurs: 3 times]TR-069 firmware upgrade stress happen call trace and coredump , Lan can't get ip address.
WAN	[#180189] EX5601, bridge config [#179749] LAN] The CPE LAN side RA packets flag are still show M bit = 0 , O bit = 1 even user change to another IPv6 Address Assign setup

Modifications in 5.70(ACDZ.1)b3

● Feature Enhancement

Modified Modules	Features Enhancement List
GUI	[#178374] [GUI] Compact help link adding ito GUI

WIFI	[#174775] EX5601, Configurable WiFi Country Code (ISO 3166-1 alpha-2) [eifS: #220901661]

● Bug Fixed

Modified Modules	Bug Fixed List
VOIP	[#177765] [VoIP] "Ignore Direct IP (Enable / Disable)" still exist on PS/GUI.
System	[#177941] [System] Use EX5601-T1 to do GPV from ACS server and get value from SNMP tool, the value are still include SFP & EX5601-T0 word
GUI	[#177869] [GUI] The EX5601-T1 should not include SFP Management GUI page [#177603] EX5601, TR-069 Multi_WAN setting GUI display bug [eifS: #221100320]

Modifications in 5.70(ACDZ.1)b2

● Feature Enhancement

Modified Modules	Features Enhancement List
SYSTEM	[#174030] EX5601, nuttcp-support [#174029] EX5601, iPerf support
GUI	[#170928] EX5601, Wifi retransmission counters

● Bug Fixed

Modified Modules	Bug Fixed List
STRESS	
Document	[#175499] [DST] The CPE GUI does not match Default Setting

	Table
VOIP	[#175284] [VoIP] When user select T.38 mode of fax, but CPE does not send T.38 packets
Wireless	[#174929] [MPro Mesh] Steering status page is display empty in all tables. No entry in it.
Throughput	[#175143] [Throughput] The EZconn SFP Upstream wired throughput can not reach Link Rate 90%
SFP	[#174937] [SFP] The CPE GUI should support SFP Management page
System	[#174857] [System] The ExpressBoot tool product name should show EX5601-T0 series [#174855] [System] Follow OPAL Generic test case, the CPE should support 10 language (Should add French) [#174848] [System] The CPE default admin password should be 8 character NOT 10 character (sys atck) [#174641] [System] The EX5601-T1 CPE MUST show correct Model Name in Shell mode & GUI
ACTS	[#174841] [ACTS][Wireless] After apply some wireless setting from GUI, zcmd crash and console/GUI can not login.
GUI	[#174811] [GUI] The PMG3000 SFP show incorrect speed 1000M/Full in V5.70(ACDZ.1)b1 after connect to Zyxel OLT1408A-C [#174782] [GUI] Use the Ezconn SFP, the GUI will show Ethnet WAN -> 1000M/Full
WAN	[#174987] [WAN] 3G Ether Dongle cannot link up, and LAN_PC cannot access GUI when the dongle is connected.

Modifications in 5.70(ACDZ.1)b1

● Feature Enhancement

Modified	Features Enhancement List
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Modules	
SYSTEM	[#172258] [System] [220701077] OPAL, Feature proposal/request - Soft-Reset feature [#172255] Easy access to the webGUI (DNS redirection)
GUI	[#172264] Main mesh GUI for control whole mesh. [#172267] Wireless setting improvement for 2.4G/5G. [#172270] Disabling 5GHz WiFi breaks the Mesh system
SFP	[#171894] EX5601, auto rate detection for SFP module

● Bug Fixed

Modified Modules	Bug Fixed List
STRESS	[#172172] [MPro Mesh][Time: 51hrs][Occur: 1 time] EX5601 occurs @skb_over_panic then reboot during Mesh stress testing period.

Modifications in 5.70(ACDZ.0)C0

Based on V5.70(ACDZ.0)b7 to release V5.70(ACDZ.0)C0

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List

Modifications in 5.70(ACDZ.0)b7

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
WiFi	[#173013] [MPro Mesh][Time:1hr][Occur: 2 time] EX5601 occurs resource temporarily unavailable of the 1905Daemon, it will lead mesh topology disappear during Mesh stress testing period.

Modifications in 5.70(ACDZ.0)b6

● Feature Enhancement

Modified Modules	Features Enhancement List
WiFi	MTK release new FW bin for DFS certification
WiFi	Country UK support U-NII3 band

● Bug Fixed

Modified Modules	Bug Fixed List
WiFi	Detect radar then wifi reload couldn't select channel

Modifications in 5.70(ACDZ.0)b5

● Feature Enhancement

Modified	Features Enhancement List
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Modules	

● Bug Fixed

Modified Modules	Bug Fixed List
Throughput	[165099] [Throughput] 5G wireless throughput does not pass PQA criterion
System	[170788] [System] Enable Zyxel Exec Env will fail, let ZyEE function cannot work.
Document	[170834] [Document] CPE does not match Default Setting.
NAT	[170779] [NAT] CPE happen call trace when create port trigger and LAN PC run heavy traffic.
SIP	[170773] [RD Internal][VoIP] After CPE establishes a SIP call, the ACS server does GPV ['Device.Services.VoiceService.1.VoiceProfile.1.Line.1.Stats.'] will lead to VoIP cannot work anymore.
TR-143	[167918] [TR-143] Throughput for upload diagnostic does not pass PQA criterion.
MESH	[MPro mesh] AP roaming test found that the record will stay at "IN_STEERING" will not be updated

Modifications in 5.70(ACDZ.0)b4

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
Stress	[#165089] [Stress] CPE happen call trace (one time) then 24G/5G can not connect to CPE after run 學禮樓 [#167596] [Stress] CPE run Reboot+change pppoe account stress via

	TR069 will happen coredump. [#169616] [Stress] CPE happen call trace after run NBL stress then stop NBL stress. (stress time > 3 minutes)
Throughput	[#168324] [Throughput] SFP (PMG3000) download throughput only 384M (packet size:1518)
LED	[#168323] [LED] SFP LED display off when CPE connect to OLT2406.
WAN	[#167923] [WAN] When SFP WAN is up, LAN client using "ping" will happen packets lost and playing IPTV will not be smooth
TR-143	[#167918] [TR-143] Throughput for upload diagnostic does not pass PQA criterion.

Modifications in 5.70(ACDZ.0)b3

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
MGMT	[#165081] [ACTS/MGMT] Restore configuration via ACS, After reboot config not change
IGMP	[#164806] [IGMP] Can't play IPv6 MLD stream
WAN	[#168180] [WAN] CPE not support 2.5G WAN for PMG3000. [#167385] [WAN] In IPoE with VLAN, WLAN client access internet very long time (more than 10 minutes) and ftp upload/download very slow.
LED	[#167912] [LED] CPE internet LED display red when plug in the 3G dongle and get WAN ip. [#167689] [LED] In PPPoE mode, Internet LED display red.
GUI	[#167848] [GUI] Go VoIP > Call History, GUI will keep loading.
Document	[#167610] [Document] CPE's VoIP setting does not match Default Setting. [#165263] [document] PS document not match CPE.
WLAN	[#167373] [WLAN] 24G&5G get IPv4/v6 address, it can not access https

	web.
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Modifications in 5.70(ACDZ.0)b2

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
WAN	<p>[#165314] [WAN] PMG3000 (V250ABVJ1b1) connect to CPE but it will work fail.</p> <p>[#164920] [WAN] LAN PC can't ping outside after 3G back wan up</p> <p>[#164858] [WAN] VLAN Autohunt function cannot work</p> <p>[#164381] [WAN] In IPoE with VLAN, LAN PC access internet very long time. (more than 15 minutes)</p>
Stress	<p>[#165254] [ACTS/Stress] CPE does not connect to ACS server after run Reboot + change PPP username/password stress via TR069.</p> <p>[#165152] [Stress] CPE happen 45 times call trace after LAN & WLAN overnight Stress testing and doing Firmware Upgrade via TR069</p> <p>[#165080] [Stress] 2.4G and 5G do not send beacon anymore after full loading stress over the weekend and do TR-069 firmware upgrade. (CPE is calibration board)</p> <p>[#165010] [Stress] CPE cannot connect to ACS Server after doing TR0-69 firmware upgrade stress overnight.</p> <p>[#165000] [Stress]CPE happen 3 times call trace when it run USB stress + FW upgrade (from TR069)</p> <p>[#164998] [Stress] CPE WAN cannot get IP after overnight stress</p> <p>[#164888] [Stress] During NBL 72 hrs stress, CPE console keeps printing messages and then reboot.</p>
USB	<p>[#165120] [USB] LAN / WLAN clients download/upload file through samba server will happen call trace.</p>

GUI	[#165045] [GUI] The wireless client icon and information will display in Wire page
TR143	[#164817] [ACTS/TR143] Set TR143 Parameters cause the DUT hang
NAT	[#164782] [NAT] Follow DST, CPE should support PCP page.
Document	[#164769] [Document] CPE does not match Default Setting.
IGMP	[#164757] [IGMP] GUI multicast Status will keep loading can't access [#164746] [IGMP] GUI IGMP/MLD page some setting not work
Maintenance	[#164747] [Maintenance] CPE not support SP Domain.
WLAN	[#164710] [WLAN] WLAN Station Status page cannot display any information when wireless client is connected. [#164544] [WLAN] WPS LED isn't amber blinking when WPS process is in progress.
Security	[#164552] [Security] Some MAC Filter CLI can not work. [#164485] [Security] Parental Control work fail.
Routing	[#164480] [Routing] RIP function cannot work. (CPE cannot send RIP packets)
DLNA	[#164422] [DLNA] DLNA work fail.
VoIP	[#168271] [VoIP] CPE has support G.726-24 and G.726-32 codec.

Modifications in 5.70(ACDZ.0)b1

● Feature Enhancement

Modified Modules	Features Enhancement List

● Bug Fixed

Modified Modules	Bug Fixed List
System	[#164359] [System] CPE upgrade FW via expressboot but GUI/Console display V5.70(ACDZ.0)b0