

**DX3301-T0 Generic  
EX3301-T0 Generic  
DX3300-T0 Generic  
EX3300-T0 Generic  
EX3200-T0 Generic  
DX3300-T1 Generic  
EX3300-T1 Generic**

Firmware Release Note

V5.50(ABVY.6.4)C0

Date: Aug. 22, 2025  
Author: Ralph Chien  
Reviewer: Ryan Yeh

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## Revision History

| Date       | Release | Author           | Description                      |
|------------|---------|------------------|----------------------------------|
| 2020/06/19 | 1.0     | GuanHong<br>Chen | FW release for V5.50(ABVY.0)b1   |
| 2020/08/14 | 1.1     | GuanHong<br>Chen | FW release for V5.50(ABVY.0)b2   |
| 2020/09/30 | 1.2     | GuanHong<br>Chen | FW release for V5.50(ABVY.0)b3   |
| 2020/10/22 | 1.3     | GuanHong<br>Chen | FW release for V5.50(ABVY.0)b4   |
| 2020/11/12 | 1.4     | GuanHong<br>Chen | FW release for V5.50(ABVY.0)b5   |
| 2020/12/11 | 1.5     | Ralph Chien      | FW release for V5.50(ABVY.1)b1   |
| 2021/01/22 | 1.6     | Ralph Chien      | FW release for V5.50(ABVY.1)b2   |
| 2021/03/18 | 1.7     | Ralph Chien      | FW release for V5.50(ABVY.1)b3   |
| 2021/03/22 | 1.8     | Ralph Chien      | FW release for V5.50(ABVY.1)b4   |
| 2021/04/06 | 1.9     | Ralph Chien      | FW release for V5.50(ABVY.1)b5   |
| 2021/06/18 | 2.0     | Ralph Chien      | FW release for V5.50(ABVY.1)b6   |
| 2021/07/14 | 2.1     | Ralph Chien      | FW release for V5.50(ABVY.1)C0   |
| 2021/09/17 | 2.2     | Ralph Chien      | FW release for V5.50(ABVY.2)b1   |
| 2021/11/05 | 2.3     | Ralph Chien      | FW release for V5.50(ABVY.2)b2   |
| 2021/11/12 | 2.4     | Ralph Chien      | FW release for V5.50(ABVY.2)b3   |
| 2021/12/20 | 2.5     | Ralph Chien      | FW release for V5.50(ABVY.2)b4   |
| 2022/01/10 | 2.6     | Ralph Chien      | FW release for V5.50(ABVY.2)b5   |
| 2022/01/26 | 2.7     | Ralph Chien      | FW release for V5.50(ABVY.2)C0   |
| 2021/10/15 | 2.8     | Ralph Chien      | FW release for V5.50(ABVY.3)b1   |
| 2021/11/19 | 2.9     | Ralph Chien      | FW release for V5.50(ABVY.3)b2   |
| 2021/12/29 | 3.0     | Ralph Chien      | FW release for V5.50(ABVY.3)b3   |
| 2022/03/10 | 3.1     | Ralph Chien      | FW release for V5.50(ABVY.3)b4   |
| 2022/04/26 | 3.2     | Ralph Chien      | FW release for V5.50(ABVY.3)b5   |
| 2022/06/01 | 3.3     | Ralph Chien      | FW release for V5.50(ABVY.3)b6   |
| 2022/06/15 | 3.4     | Ralph Chien      | FW release for V5.50(ABVY.3)C0   |
| 2022/06/29 | 3.5     | Ralph Chien      | FW release for V5.50(ABVY.3.1)b1 |

|            |     |             |                                  |
|------------|-----|-------------|----------------------------------|
| 2022/06/29 | 3.6 | Ralph Chien | FW release for V5.50(ABVY.3.1)C0 |
| 2022/11/16 | 3.7 | Ralph Chien | FW release for V5.50(ABVY.3.3)b1 |
| 2022/11/16 | 3.8 | Ralph Chien | FW release for V5.50(ABVY.3.3)C0 |
| 2022/11/23 | 3.9 | Ralph Chien | FW release for V5.50(ABVY.3.4)b1 |
| 2022/11/23 | 4.0 | Ralph Chien | FW release for V5.50(ABVY.3.4)C0 |
| 2023/02/24 | 4.1 | Ralph Chien | FW release for V5.50(ABVY.4)b1   |
| 2023/04/28 | 4.2 | Ralph Chien | FW release for V5.50(ABVY.4)b2   |
| 2023/06/16 | 4.3 | Ralph Chien | FW release for V5.50(ABVY.4)b3   |
| 2023/07/28 | 4.4 | Ralph Chien | FW release for V5.50(ABVY.4)b4   |
| 2023/08/21 | 4.5 | Ralph Chien | FW release for V5.50(ABVY.4)b5   |
| 2023/09/01 | 4.6 | Ralph Chien | FW release for V5.50(ABVY.4)C0   |
| 2023/10/20 | 4.7 | Ralph Chien | FW release for V5.50(ABVY.5)b1   |
| 2023/12/29 | 4.8 | Ralph Chien | FW release for V5.50(ABVY.5)b2   |
| 2024/03/05 | 4.9 | Ralph Chien | FW release for V5.50(ABVY.5)b3   |
| 2024/04/03 | 5.0 | Ralph Chien | FW release for V5.50(ABVY.5)b4   |
| 2024/04/17 | 5.1 | Ralph Chien | FW release for V5.50(ABVY.5)C0   |
| 2024/04/30 | 5.2 | Ralph Chien | FW release for V5.50(ABVY.5.1)b1 |
| 2024/05/03 | 5.3 | Ralph Chien | FW release for V5.50(ABVY.5.1)b2 |
| 2024/05/03 | 5.4 | Ralph Chien | FW release for V5.50(ABVY.5.1)C0 |
| 2024/05/20 | 5.5 | Ralph Chien | FW release for V5.50(ABVY.5.2)b1 |
| 2024/05/24 | 5.6 | Ralph Chien | FW release for V5.50(ABVY.5.2)b2 |
| 2024/05/27 | 5.7 | Ralph Chien | FW release for V5.50(ABVY.5.2)C0 |
| 2024/06/28 | 5.8 | Ralph Chien | FW release for V5.50(ABVY.5.3)b1 |
| 2024/06/28 | 5.9 | Ralph Chien | FW release for V5.50(ABVY.5.3)C0 |
| 2024/07/31 | 6.0 | Ralph Chien | FW release for V5.50(ABVY.6)b1   |
| 2024/11/01 | 6.1 | Ralph Chien | FW release for V5.50(ABVY.6)b2   |
| 2025/01/14 | 6.2 | Ralph Chien | FW release for V5.50(ABVY.6)b3   |
| 2025/02/24 | 6.3 | Ralph Chien | FW release for V5.50(ABVY.6)C0   |
| 2025/03/07 | 6.4 | Ralph Chien | FW release for V5.50(ABVY.6.1)b1 |
| 2025/03/07 | 6.5 | Ralph Chien | FW release for V5.50(ABVY.6.1)C0 |
| 2025/04/11 | 6.6 | Ralph Chien | FW release for V5.50(ABVY.6.2)b1 |
| 2025/04/18 | 6.7 | Ralph Chien | FW release for V5.50(ABVY.6.2)C0 |
| 2025/05/23 | 6.8 | Ralph Chien | FW release for V5.50(ABVY.6.3)b1 |
| 2025/05/23 | 6.9 | Ralph Chien | FW release for V5.50(ABVY.6.3)C0 |

|            |     |             |                                  |
|------------|-----|-------------|----------------------------------|
| 2025/08/22 | 7.0 | Ralph Chien | FW release for V5.50(ABVY.6.4)b1 |
| 2025/08/22 | 7.1 | Ralph Chien | FW release for V5.50(ABVY.6.4)C0 |

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Date: Aug. 22, 2025

## **Supported Platforms:**

Zyxel DX3301-T0

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

Zyxel DX3300-T0(DX3301-T0 remove VoIP)

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

Zyxel EX3200-T0(DX3301-T0 remove VD WAN and VoIP)

Zyxel DX3300-T1 (DX3301-T0 remove VoIP and ETH WAN)

Zyxel EX3300-T1 (DX3301-T0 remove VD and ETH WAN and VoIP)

## **Versions:**

Bootbase version : V1.45 | 02/23/2023 19:36:05

Firmware version : V5.50(ABVY.6.4)C0

Kernel version : 3.18.21

DSL code version : V5.12.30.0\_240118

WLAN code version : MT7915D 7.4.0.0

3G dongle WWAN package version : 1.26

**Notes:**

## Public Domain Software Announcements

| Open Source<br>Used in<br>product(3 <sup>rd</sup><br>party software) | Version       | From (Source)                                                                                                                                                             | Licensing<br>Term | Modified /<br>Used |
|----------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|
| Bridge-Utils                                                         | 1.0.6         | <a href="http://bridge.sourceforge.net">http://bridge.sourceforge.net</a>                                                                                                 | GPLv2             | Used               |
| BusyBox                                                              | 1.20.1        | <a href="http://www.busybox.net/">http://www.busybox.net/</a>                                                                                                             | GPLv2             | Modified           |
| clinkc                                                               | 2.4           | <a href="http://sourceforge.net/projects/clinkc/">http://sourceforge.net/projects/clinkc/</a>                                                                             | BSD               | Modified           |
| dnsmasq                                                              | 2.85          | <a href="http://www.thekelleys.org.uk/dnsmasq/doc.html">http://www.thekelleys.org.uk/dnsmasq/doc.html</a>                                                                 | GPLv2             | Modified           |
| dropbear                                                             | 2024.85       | <a href="http://matt.ucc.asn.au/dropbear/dropbear.html">http://matt.ucc.asn.au/dropbear/dropbear.html</a>                                                                 | MIT               | Modified           |
| ebtables                                                             | 2.0.8-2       | <a href="http://ebtables.sourceforge.net">http://ebtables.sourceforge.net</a>                                                                                             | GPLv2             | Modified           |
| eventlog                                                             | 0.2.10        | <a href="http://git.balabit.hu/?p=bazsi/eventlog-1.0.git;a=summary">http://git.balabit.hu/?p=bazsi/eventlog-1.0.git;a=summary</a>                                         | BSD               | Used               |
| expat                                                                | 2.7.1         | <a href="http://expat.sourceforge.net/">http://expat.sourceforge.net/</a>                                                                                                 | MIT               | Used               |
| ez-ipupdate                                                          | 3.0.11b8      | <a href="http://ez-ipupdate.com/">http://ez-ipupdate.com/</a>                                                                                                             | GPLv2             | Used               |
| 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="http://repository.timesys.com/buildsources/i/iproute2/">http://repository.timesys.com/buildsources/i/iproute2/</a>                                               | GPLv2             | Modified           |
| iptables                                                             | 1.4.10        | <a href="http://www.netfilter.org">http://www.netfilter.org</a>                                                                                                           | GPLv2             | Modified           |
| json-c                                                               | 0.13          | <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_queue                                                   | 1.0.2         | <a href="http://www.netfilter.org/projects/libnetfilter_queue/">http://www.netfilter.org/projects/libnetfilter_queue/</a>                                                 | GPLv2             | Used               |
| libnfnetlink                                                         | 1.0.1         | <a href="http://www.netfilter.org/projects/libnetfilter_queue/">http://www.netfilter.org/projects/libnetfilter_queue/</a>                                                 | GPLv2             | 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               |

|                |           |                                                                                                                               |                             |          |
|----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------|
| libusb         | 1.0.9     | <a href="http://www.libusb.org/">http://www.libusb.org/</a>                                                                   | LGPL 2.1                    | Used     |
| logrotate      | 3.22.0    | <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 |
| net-snmp       | 5.9.4     | <a href="http://www.net-snmp.org/">http://www.net-snmp.org/</a>                                                               | BSD/BSD like                | Modified |
| ntfs-3g        | 2022.10.3 | <a href="http://ntfs-3g.org">http://ntfs-3g.org</a>                                                                           | GPLv2/L<br>GPLv2            | Used     |
| ntpclient      | 2007_365  | <a href="http://doolittle.icarus.com/ntpclient/">http://doolittle.icarus.com/ntpclient/</a>                                   | GPLv2                       | Modified |
| openssl        | 3.2.0     | <a href="http://www.openssl.org">http://www.openssl.org</a>                                                                   | Openssl<br>(BSD-<br>style)  | Modified |
| popt           | 1.16      | <a href="http://rpm5.org/files/popt/">http://rpm5.org/files/popt/</a>                                                         | MIT                         | Modified |
| ppp            | 2.4.3     | <a href="http://www.roaringpenguin.com/pppoe">http://www.roaringpenguin.com/pppoe</a>                                         | GPL/LGP<br>L/BSD            | Modified |
| pure-ftpd      | 1.0.50    | <a href="http://pureftpd.org">http://pureftpd.org</a>                                                                         | ISC/BSD                     | Modified |
| radvd          | 1.8       | <a href="http://www.litech.org/radvd/">http://www.litech.org/radvd/</a>                                                       | BSD                         | Used     |
| readline       | 8.2       | <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     |
| samba          | 3.6.25    | <a href="http://www.samba.org/samba/">http://www.samba.org/samba/</a>                                                         | GPLv3                       | Modified |
| sqlite         | 3.46.0    | <a href="http://www.sqlite.org/">http://www.sqlite.org/</a>                                                                   | Public<br>Domain<br>License | Used     |
| syslog-ng      | 4.7.1     | <a href="http://www.balabit.com/network-security/syslog-ng/">http://www.balabit.com/network-security/syslog-ng/</a>           | GPLv2                       | Used     |
| tcpdump        | 4.99.4    | <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 |
| usb-modeswitch | 2.1.0     | <a href="http://www.draisberghof.de/usb_modeswitch/">http://www.draisberghof.de/usb_modeswitch/</a>                           | GPLv2                       | Used     |
| WIDE-DHCPv6    | 20080615  | <a href="http://wide-dhcpv6.sourceforge.net/">http://wide-dhcpv6.sourceforge.net/</a>                                         | BSD                         | Modified |
| miniupnpd      | 2.3.1     | <a href="http://miniupnp.free.fr/">http://miniupnp.free.fr/</a>                                                               | BSD-3-<br>Clause            | Used     |
| curl           | 8.7.1     | <a href="https://curl.se/">https://curl.se/</a>                                                                               | MIT                         | Modified |
| quagga         | 1.2.4     | <a href="https://github.com/Quagga/quagga">https://github.com/Quagga/quagga</a>                                               | GPLv2                       | Modified |

## 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 V5.50(ABVY.6.4)C0

Based on V5.50(ABVY.6.4)b1 to release V5.50(ABVY.6.4)C0

### ● Feature Enhancement

| Modified Modules | Features Enhancement List                        |
|------------------|--------------------------------------------------|
| FCS              | Based on 5.50(ABVY.6.4)b1, Change to FCS version |

### ● Bug Fixed

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

## Modifications in V5.50(ABVY.6.4)b1

Based on V5.50(ABVY.6.3)C0 to release V5.50(ABVY.6.4)b1

### ● Feature Enhancement

| Modified Modules | Features Enhancement List |
|------------------|---------------------------|
|                  |                           |

### ● Bug Fixed

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

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CVE | <div>1. [CVE-2025-20631 、 CVE-2025-20632 、 CVE-2025-20633] Possible out-of-bounds write in MTK WLAN driver.</div> <div>2. [CVE-2024-8176] Zyxel-SI-1605 [Vulnerability] The libexpat open source library is vulnerable to DoS attacks through stack overflow</div> <div>3. Zyxel-SI-1612 Improper privilege management</div> <div>4. [CVE-2025-6599] Zyxel-SI-1616 [Vulnerability] Slow HTTP DoS vulnerability in the DX3301-T0</div> <div>5. [CVE-2025-6599] Zyxel-SI-1621 [Vulnerability] Slow read DoS vulnerability on the zhttpd web server</div> <div>6. [CVE-2025-8693] Zyxel-SI-1624 [Vulnerability] A post-authentication command injection vulnerability in the certificate upload CGI program of DX3300-T0 and VMG3925-B10B</div> |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|