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# Release Notes - Zebra ET50 Android M –Update 02 Release for WLAN NONGMS

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## Description

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This release contains the following software package which is compatible with the ET50 Non-GMS product.

## Component Description and versions

Build Number	03-21-20.00-MN-U02-STD
Android_version	6.0.1 (32-bit)
Android_SDK_Level	23
Android Security Patch Level	February 01, 2019
Linux_kernel	3.14.55 (64-bit)
OSX	INTL.60.6.6.4
Wifi	FUSION_BA_3_10.0.4.012_M
TXE FW	1.2.1.1153
BIOS version	5.04.42.0052-A-Z-016

UPLMC FW version	UPLMC_0065_08
Bluetooth stack	4.1
NFC	8.1.24
Scanning_Framework	19.7.26.0
Datawedge	6.8.54
DWDemo	2.0.13
MXMF	8.0.3.0
Touch	2.2.AA
Scanner Firmware	PAABLC44-001-R01
RxLogger	4.61.0.0
RD Client	1.01.03
StageNow	3.0.1.1038
SOTI	13.3.0. Build 1059
EMDK	6.9.16.1216
B2M_Elemez	1.0.0.347
Data_Analytics	1.0.2.1859
File Browser	1.19.1.0
Enterprise Keyboard Manager ("added as a system application")	1.8.0.3
AppGallery	3.0.1.7

## 1. Update 02 Changes:

- Android Security Patch Level: February 01, 2019

Use the below link to see the Android Security bulletin for more information:  
<https://source.android.com/security/bulletin/>

- Updated below mentioned components:

FUSION\_BA\_3\_10.0.4.012\_M

SPR 35567 Resolved an issue where ET50 was facing Wi-Fi network drops after installing LG02/03, while BT in use.

## Device Compatibility

This software release has been approved for Android ET50 M NON-GMS models mentioned below.

Device	Operating System
ET50PE-L15E-00A6	Android 5.1.1, Android 6.0.1
ET50PE-L15E-00US	Android 5.1.1, Android 6.0.1
ET50PT-L15E-00A6	Android 5.1.1, Android 6.0.1
ET50PT-L15E-00US	Android 5.1.1, Android 6.0.1

## Component Contents/Updates

Component / Description	Version
Product Build Number	03-21-20.00-MN-U02-STD
Device Patch Version	2
BIOS version	5.04.42.0052-A-Z-016
Android Version	6.0.1
Wi-Fi	FUSION_BA_3_10.0.4.012_M
BT Firmware	BCM4354_003.001.012.0404.1391

## Installation Requirements

ADB installed on the PC (including adb drivers)

USB debugging turned ON (from Developer options) ET50 NON-GMS has at least: Version 03-21-20-M-0R-M1-U00-STD build.

# Installation Instructions

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BEFORE UPDATING THE OS IMAGE, EXTERNAL POWER MUST BE APPLIED TO THE TERMINAL VIA USB CHARGING CABLE OR CRADLE.

PLEASE ENSURE BATTERY LEVEL IS > 30%

UPDATE 02 HAS BEEN RELEASED IN THIS POSTING.

Update 02:

- ET50\_P02\_MN\_032120.zip (NON-GMS)

- 1) If the device has 03-21-20 -M-0R-M1-U00-STD build

To see what NON-GMS build version is currently on the device, go to “Settings” and scroll down to “About tablet” scroll down to “Build Fingerprint”

If it shows 03-21-20-M-0R-U00-STD the device has base build

AND

To see what NON-GMS patch version is currently on the device, go to “Settings” and scroll down to “About tablet” Then select “**SW Components**” Scroll down to Device Patch Version:

If “Device Patch Version: 0” the device has base build, if it shows 1 it has UPDATE 01 installed, if it shows 2 it has UPDATE 02 installed.

- 2) If the device is having AUO display the device cannot be downgraded to the older OS RevA(v01-08-20)/RevB(v02.14.30)/RevC(v03.21.20 base build) or to the L OS

To find the display type please run the below command in ADB shell

“getprop ro.boot.spid”.

If the line [ro.boot.spid]: [0000:0000:000a:0007:000a:**0005**] is present, then the device is having the above Display.

Or,

From Settings->About tablet->SW components->Touch Config ->f1.**0b**.01.01.00.00

Display type is checked from second parameter **0b**, means device is having AUO 8” display.

## Software update procedure for ET50:

1. For applying the patch, please refer [Zebra ET5x Android Flashing Procedure.pdf](#)
2. There are two ways to Check the Android Patch Level after installing the Update 02 package in the device,
  - a. Settings->About tablet-> SW Components->Device Patch Version: 2

- b. Run “getprop ro.device.patch.version” command in ADB Shell.
3. After installing the ET50\_P02\_MN\_032120.zip on the device, the OS build number would be 03-21-20.00-MN-U02-STD
4. Now you are all set to use your ET50.

## IMPORTANT NOTE:

### **Procedure to update ET5x Android M using the recovery image (ET50\_FP01\_MN\_032120.zip) & ET50\_P02\_MN\_032120.zip using the UPL method.**

1. This procedure uses Multi-Package update (UPL) mechanism.
2. All packages/files should be present in same folder path. **Note: external sdcard, files should be placed in root folder.**
3. .upl file is the input for this process, which will have the list of packages to be installed.
4. In the upl file the list of package names should start with “package:”

Sample upl file contents for ET5x M to flash to any LG patch based on OS 03.21.20:

```
package: ET50_FP01_MN_032120.zip
package: ROLLBACK_TO_ET50_NG_03.21.20.zip
package: ET50_P02_MN_032120.zip
```

Where

- i. **ET50\_FP01\_MN\_032120.zip** – ET50-M GSM/Non-GSM recovery update package.
- ii. **ROLLBACK\_TO\_ET50\_NG\_03.21.20.zip**– The patch to rollback to OS 03.21.20.
- iii. **ET50\_P02\_MN\_032120.zip** – The LifeGuard patch created on top of OS 03.21.20.

## Downloadable Software Included in this Release

File	Details
ET50_P02_MN_032120.zip	OTA incremental patch Update Recovery package to update from Android M RevC to Patch 02

Last Revised: 25-02-2019