

Release Notes – Zebra ET50 Android M 02-14-30-M-0R-M1 NON-GMS

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Introduction

The ET50 marries the best of consumer-styling with all the enterprise-class features you need to increase workforce productivity, with a real business class return on your tablet investment. Your workers get the elegant personal tablet styling they want, while you get a durable tablet designed to last for years, exceptional battery power, rapid capture of business data, plus a comprehensive family of business accessories to easily customize a solution for any job.

Description

ET50 v02-14-30 NON-GMS Android M RevB release will deliver OS upgrade to Android M for upgrading ET50 device from Android L(v01-08-21) to Android M, or update from Android M RevA(v01-08-20) with data persistence via OTA package.

New Features

- Additional features in WLAN:
 - WiFi-Direct and WPS2.0
 - Miracast Support
 - Hotspot 5Ghz support
 - Dynamic Token for EAP GTC
 - WAN based Regulatory

- Additional features in Scanning:
 - Added support for DS3608 SR/ER scanners
 - Added support for DS3678 SR/ER scanners
 - Added support for RS6000 Bluetooth scanner

- Additional features in Mx:
 - FileManager CSP Changes for FTPS support and AW BaseURI support

- Provision to change an application's battery optimization mode
 - Enable managed profile
 - Provision to disable Recent App button
 - Provision to Enable/Disable navigation bar
- Added Screen blanking feature in use with GamberJohnson Fork Lift Mount Cradle
 - Added Enterprise Lockdown support
 - Battery life and Touch performance optimizations
 - Mobility DNA updates for Out-of-box applications
 - Android Security Patch Level: December 01, 2017 (Android Security Patch Level: 2017-12-01)
Use the below link to see the Android Security bulletin for more information:
<https://source.android.com/security/bulletin/>
 - Corrections for KRACK vulnerabilities applied.

Supported software's

- Enterprise Keyboard
- Enterprise Home Screen
- Enterprise Browser
- SmartDex
- Scan n Pair
- Zebra Printers
- All-Touch Terminal Emulation

Component Description and versions

Build_version	02-14-30-M-0R-M1
Android_version	6.0.1 (32-bit)
Android_SDK_Level	23
Android Security Patch Level	2017-12-01
Linux_kernel	3.14.55 (64-bit)
OSX	INTL.60.6.6.3

Wifi	FUSION_BA_3_10.0.0.011_M
TXE FW	1.2.1.1153
BIOS version	5.04.42.0052-A-Z-013
UPLMC FW version	UPLMC_0065_07
Bluetooth stack	4.1
NFC	8.1.24
Scanning_Framework	19.7.26.0
Datawedge	6.6.50
DWDemo	2.0.12
MXMF	7.1.3.0
Touch	2.2.AA
Scanner Firmware	PAABLC44-001-R01
RxLogger	4.61.0.0
RD Client	1.01.03
StageNow	2.9.1.1373
SOTI	13.3.0. Build 1059
EMDK	6.7.10.1010
B2M_Elemez	1.0.0.347
Data_Analytics	1.0.2.1859
File Browser	1.19.1.0
Enterprise Keyboard Manager CSP	1.6.0.0
AppGallery	3.0.1.7

Additional SPR fixes in RevB:

- SPR33115 – Resolved issue related to few applications missing on upgrade from L
- SPR32894/32956 – Resolved issue where Airwatch fails to install package because MX reports a 'permission error'
- SPR33599 – Fixed missing system packages after applying the SN barcode to enable the AppLock
- SPR 33755 – Fixed issue where AllowSubmitXMLAction not working as expected

- SPR33293/33087 – ET5x - Lollipop <--> Marshmallow upgrade/downgrade process improvement
- SPR33067 – Fix for issue where ZBK(SE4750) scanner was not functioning on upgrade from L to M OS.
- SPR33659 – Fix for issue where continuous read mode doesn't work when beam timer is set to 0.
- SPR32471 – Fix for issue where ET50 is unable to associate to Cisco AP when 802.11r/Fast BSS Transition over DS is active
- SPR32438 – Changes to roam effectively on an Aruba WiFi network
- SPR32647 – Fix for issue with Radio driver fail

SPR fixes in ET50 M RevA:

- *SPR32038 – AirWatch deployed security profile to Wipe the device after X failed pin entries doesn't work on ET5X as expected*
- *SPR30992/SPR31563 – Touch Panel response improvement*
- *SPR30979 – USB devices are not visible after ET5X is reinserted into the cradle*
- *SPR31276 – Fix for WLAN slow network traffic when connected to Cisco AP having low DTPC value*
- *SPR31230 – Fix for Wireless connection locked / dropped when SIP client running.*
- *SPR31733 – Fix for WLAN Exhibits excess band switching*
- *SPR32230 – Workaround for private key access failure through keystore*
- *SPR32193 – Fix for Device authentication failure when the keystore is empty.*
- *SPR32320 – Fix for Wifi disconnect issue*
- *SPR32125 – Fix for issue where the radio is disabled when device is not used for a while, even when is WLAN is set to be always ON*
- *SPR32135 – Fix for issue where after reverting locale from Arabic to English and the Settings screen does revert to its normal state even though the Locale is changed to English*
- *SPR32008 – Fixed issue where on scanning PDF417 barcodes which contain embedded 0x0D characters, these characters transmit as a space character instead of enter/return.*

- *SPR32546 – Fixed issue where Airwatch crash is observed when the AW whitelist is configured with certain restrictions*

Notes and known issues

- On upgrade from ET5x Android L(64-bit) to Android M(32-bit), it is observed that very few user installed applications are not present due to incompatibility. A notification banner with a list of applications which are no longer compatible with ET5x Android M will be displayed with package names suggesting users to re-install them.

This list is also saved in a lookup file: `‘/data/system/ET5xM_incompatible_pkg_list’` which can be used by device administrators to re-install them

- On EnterpriseReset of ET5x M by default, the two ET5x sensors (gyroscope and accelerometer) are disabled. The notification icon (!) appears in the Status Bar indicating that these sensors are disabled. To use the device sensors for screen rotation and positioning, turn ON the sensors.
 1. Swipe down from status bar to view the Notification Panel.
 2. Touch **Auto rotation Disabled** notification. The **Sensors** screen appears.
 3. Touch the switch in the top right corner of the screen. The **Restart now?** dialog appears.
 4. Touch **OK**. The device shuts down and then reboots. After reboot, all sensors are enabled.

MDM/Staging applications can enable Accelerometer and Gyroscope sensors by broadcasting the intent "com.symbol.sensor.ENABLE_SENSORS".

After device receives this intent, the device will automatically reboot with the sensors enabled.

- On EnterpriseReset of ET5x M by default the device is not encrypted, this default state is to provide userdata persistence on upgrade from un-encrypted ET5x Android L.
- In recovery mode of ET5x M following modes are not available:
 - Wipe data/factory reset
 - Apply from internal memory
- User data will not be persisted on downgrading ET5x M device to ET5x L or when converting from a GMS to Non-GMS OS, or Non-GMS to GMS OS.
- Android Factory Reset Protection feature would require customers to provide their previous registered Google account details to register the device again after a factory reset operation
- WLAN: Support for EAP Fast has been removed in Android M

- HDMI settings configuration is not available in ET5x M
- Bluetooth HFP and HSP profiles are disabled and not supported on ET5x M.
- Using Google Chrome, the download session gets stopped when device gets disconnected from network. User has to re-initiate the download
- Using SOTI EMM, first time enrollment sometimes fails. User can relaunch and retry the enrollment
- Using SOTI EMM, Wifi EAP profile does not persist after EnterpriseReset. As a workaround configure an additional staging profile (PSK based) so that it can be persisted on EnterpriseReset. After EnterpriseReset re-configure the EAP TLS profile again from EMM server
- Recovery mode is not supported for Class 10 SDcard of size 32GB and above

Contents

File	Details
ET500M300PUEF21430.zip	Full OS Software Update Recovery package
ET500M300PGEF21430.zip	Android L to Android M Software Upgrade Recovery package
ET500M300PKEF21430.zip	OTA incremental patch Update Recovery package to update from Android M RevA to Android M RevB
ET500M300REEF21430.zip	Enterprise Reset Recovery Package. Wipes userdata (/data) partitions. Persists Enterprise, OnDeviceStorage (/sdcard) and factory partitions.
ET500M300RFEF21430.zip	Factory Reset Recovery Package. Wipes userdata (/data) and Enterprise partitions Persists OnDeviceStorage (/sdcard) and factory partitions.

Device Compatibility

This software release has been approved for use with the following devices.

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
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Installation Requirements

This Software has to be used with compatible devices listed above

Installation Instructions

Please refer [Zebra ET5x Android Flashing Procedure.pdf](#)

Part Number and Release Date

ET50

30 Jan 2018