Release Notes - Zebra ET50 Android M LifeGuard Update 06 WLAN (Non-GMS)

Highlights

This release contains the following software package which is compatible with the ET50 Non-GMS product. LifeGuard patches are cumulative and include all previous fixes that are part of earlier patch releases.

Software Packages

Package Name	Package Description
CFE-ET50-M-XX-032120-N-00-06.zip	LG Package Update

Security Updates:

- Android Security Patch Level: 2018-08-05 (Critical Patch Level: 2020-08-01)

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

1. **CFE v6 Updates:**

    CFE-ET50-M-XX-032120-N-00-06.zip (GMS)

    SPR39621 - Fixed an issue wherein UI manager CSP was crashed while setting EKB as default.

    SPR39572 - Resolved an issue wherein sim Card was not detected in earlier modems
    sporadically.

    Enable DataWedge Camera Decode and support multi-decode unique continuous mode.

    Updated Components:
    WebView 83.0.4103.106

2. **CFE v5 Updates:**

    CFE-ET50-M-XX-032120-N-00-05.zip (GMS)

    o SPR38483 - Resolved an issue where Bluetooth slowness seen with printer operation.
    o SPR37841 - Cypress fixed the issue with power save which made the device not to
    receive the buffered packets.

- o SPR38958 - Resolved an issue where VPN and ethernet connection was not using Domain name.

- o SPR37982 - Resolved an issue wherein incorrect power consumption was reported against Bluetooth module

- o SPR37434 - Resolved an issue wherein High CPU utilization is observed when StageNow is used to configure Fusion Advance logs.

- o Updated the firmware for fixing Kr00k vulnerability issue seen with Broadcom Wi-Fi chipsets
- o

- • Updated components:

    - o WebView 84.0.4117.0
    - o FUSION_BA_3_10.0.5.014_M

3. CFE v4 Updates:

CFE-ET50-M-XX-032120-N-00-04.zip (GMS)

- o SPR-36441 – Resolved an issue where unable to write on ATP SD Card.

- • Updated components:

    - o WebView: 73.0.3683.90

    - o Fusion: FUSION_BA_3_10.0.5.013_M

    - o BIOS: 5.04.42.0052-A-Z-017

        - ▪ Includes Microarchitectural Data Sampling fixes.

4. CFE v3 Updates:

CFE-ET50-M-XX-032120-N-00-03.zip (GMS)

- • Updated below mentioned components:

    - o Mx MF (8.2.4.8)

        - ▪ SPR34771 – Resolved an issue wherein sync was not proper while checking with access manager for permission with Mx component.

- o Bluetooth

  - ▪ SPR35735 – Resolved an issue where more than 7 HID devices were not connecting.

- o SPR36162 – Added Support for Dex

- o Zebra License Manager (3.1.1) has been included.

- o Data Analytics changes:

  - ▪ DataAnalytics has been renamed to Zebra Data Service.

  - ▪ DAInBuiltDCA has been renamed to Zebra Data Service Plugin.

  - ▪ SettingsEULA has been renamed to Zebra Data Services.

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	03-21-20.00-MN-U06-STD
Android Version	6.0.1
Security Patch level	2018-08-05 (Critical Patch Level: 2020-08-01)
Linux_kernel	3.14.55 (64-bit)
Component Versions	Please see Component Version under Addendum section

Important Links

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-MN-0R-M1-U00-STD build

Installation Instructions

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%

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

   To see what 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-MN-0R-M1-U00-STD the device has base build

   AND

   To see what 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. If it is shows 3 then it has updated CFE3. If it shows 4 then it has updated to CFE4.

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 AUO 8" 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 package in the device,

   a. Settings->About tablet-> SW Components->Device Patch Version: 5

   b. Run "getprop ro.device.patch.version" command in ADB Shell.

3. After installing the CFE-ET50-M-XX-032120-N-00-06.zip on the device, the OS build number would be 03-21-20.00-MN-U05-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_MG_032120.zip) & CFE-ET50-M-XX-032120-N-00-06.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_N_03.21.20.zip
package:  CFE-ET50-M-XX-032120-N-00-06.zip
```

Where
  i.   ET50_FP01_MN_032120.zip – ET50-M GMS/Non-GMS recovery update package.

  ii.   ROLLBACK_TO_ET50_N_03.21.20.zip– The patch to rollback to OS 03.21.20.

CFE-ET50-M-XX-032120-N-00-06.zip – The LifeGuard patch 06 created on top of OS 03.21.20.

Device Support

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

Addendum

Component Version

Component / Description	Version
Android_SDK_Level	23
AppGallery	3.0.1.7

B2M_Elemez	1.0.0.347
BIOS version	5.04.42.0052-A-Z-017
Bluetooth stack	4.1
BT Firmware	BCM4354_003.001.012.0404.1391
Data_Analytics	1.0.2.1859
DataWedge	7.0.4
Device Patch Version	6
DWDemo	2.0.13
EMDK	7.0.0.2000
Enterprise Keyboard Manager ("added as a system application")	1.9.0.9
File Browser	1.19.1.5
License Manager	3.1.1
MXMF	8.2.5.0
NFC	8.1.24
OSX	INTL.60.6.6.4
Product Build Number	03-21-20.00-MN-U06-STD
RD Client	1.01.03
RXlogger	4.61.0.0
Scanner Firmware	PAABLC44-001-R01
Scanning_Framework	19.64.37.0
SOTI	13.3.0. Build 1059
StageNow	3.1.1.1019

Touch	2.2.AA
TXE FW	1.2.1.1153
UPLMC FW version	UPLMC_0065_08
Wi-Fi	FUSION_BA_3_10.0.5.014_M
WebView	83.0.4103.106

Revision History

Rev	Description	Date
1.0	Initial Release	Aug 07, 2020