Release Notes - Zebra ET50 Android L – LifeGuard Update 12 Release for WLAN Non-GMS

Contents

Description

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.

Note: The CFE Package **ET50-L-010821-N-SEPOLICYv2** needs to be installed if you are going to apply Update07 or Update08 patches only.

The CFE Package **ET50-L-010821-N-SEPOLICYv2** is not needed to be installed from **Update 09** onwards.

1. **CFE v12 Updates:**
   ❖ CFE-ET50-L-XX-010821-N-00-12.zip (Non-GMS)

   1. **Android Security Patch Level**: March 05, 2018 (Critical Patch Level: September 01, 2018)
   Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

      o Updated MXMF Version to 7.2.9.0.
        (For more detail please refer http://techdocs.zebra.com)
      o SPR35025 - Resolved an issue where Proxy Auto Config (PAC) did not work properly following stops/restarts of the PacService.
      o SPR33977 - Resolved an issue wherein set time zone issue observed with StageNow.
      o SPR34716 - Resolved an issue where the MX Framework did not restart properly following events where the service was stopped.
      o SPR34679 - Resolved an issue wherein setting WLAN band to Auto through StageNow was failing.
      o SPR34614 - Resolved an issue in DataWedge wherein scanner could not be enabled due to quick enabling and disabling of scanner through Intents.

- o Data Analytics changes:
  - ▪ Data Analytics Agent and its components have been renamed so that it adheres to the Analytics product's marketing terms:
    - • SettingsEULA has been renamed to Zebra Data Services.

Component Contents

Component / Description	Version
Product Build Number	01-08-21-L-0R-M1.161012
Android Version	5.1.1
Android_SDK_Level	22
OSX	INTL.51.5.2.7
Wifi	FUSION_BA_3_00.0.11.019
BIOS version	5.04.42.0052-A-Z-013
ULPMC FW version	ULPMC_0065_08
Scanning_Framework	16.13.40.0
DWDemo	2.0.13
MXMF	7.2.9.0
Scanner Firmware	PAABLC44-001-R00
DataWedge	6.7.48
RxLogger	4.58.5.0
StageNow	2.10.1.1389
SOTI	12.2.0 Build 23469
EMDK	6.8.21.1121
B2M_Elemez	1.0.0.408
Data_Analytics	2.4.0.1036
EKB	1.7.0.2
File Browser	1.19.1.2

2. CFE v11 Updates:
   ❖ CFE-ET50-L-XX-010821-N-00-11.zip (Non-GMS)

1. **Android Security Patch Level**: March 05, 2018 (Critical Patch Level: June 01, 2018)
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

- o Updated below mentioned components:
  - o EKB – Version 1.7.0.2 (Added as a System application with this CFE 11)
  - o MXMF – Version 7.2.8.2
  - o DataWedge – Version 6.7.48
  - o EMDK – Version 6.8.21.1121
  - o StagingClient – Version 2.10.1.1389
  - o ULPMC FW - Version ULPMC_0065_08

- o SPR33899 – Resolved an issue where the sync interval is not updated after reboot.
- o SPR34530 – Battery firmware is updated to adjust the battery charge level based on temperature.
- o SPR33671 - Resolved an issue wherein the profile creation used to fail if the username included "\" character.
- o SPR34267 - Resolved an issue where-in user was not able to enable USB debugging option using StageNow.

- o SPR33862/33876 – Resolved an issue where-in user could not set Display Timeout value of 30 min using StageNow.
- o SPR33973 – Resolved an issue wherein erroneously loading default profile by providing feature to ignore disabled profiles in DataWedge.
- o SPR34307/33607 - Resolved an issue where few fresh devices were unable to stage after unboxing the device.
- o SPR34189 - Resolved an issue wherein low ram and oom limit adjustments is implemented to provide more free memory.
- o SPR33639 – Resolved an issue wherein the customer app install and launch during device sleep state and device stop emitting scan beam after awake from suspend.
- o SPR33876 – Resolved an issue wherein Display Timeout was unable set via StageNow.
- o SPR33538 - Resolved an issue wherein the Scanner beam stuck off and No LED beam while pressing scanner button.
- o SPR33981 – Resolved an issue Czech Republic Regulatory Country could not be set using Wifi config profile.
- o SPR34187 - Resolved an issue wherein MXFramework does not restart after being killed due to low memory conditions.

3. CFE v10 Updates:
❖
    CFE-ET50-L-XX-010821-N-00-10.zip (Non-GMS)

1. **Android Security Patch Level**: March 05, 2018
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/
- o Updated below mentioned components:
  - o MXMF – Version 7.2.0.6
  - o DataWedge – Version 6.7.34
  - o EMDK – Version 6.8.20
  - o StagingClient – Version 2.10.1.1386
  - o File Browser – Version 1.19.1.2
  - o DDT – Version 1.15.0.11

- o SPR33938 – Resolved the issue wherein the camera does not work intermittently.
- o SPR33639 – Resolved an issue wherein the device stops emitting scan beam after waking up from suspend.

- o SPR33538 – Resolved an issue wherein scanner beam stuck off when pressing scanner button.

- o SPR34205 – BT Firmware Update.

  - The change in Firmware is about better prioritization to eSCO traffic when another Bluetooth ACL link is present.

4. CFE v9 Updates:
❖
    CFE-ET50-L-XX-010821-N-00-09.zip (Non-GMS)

1. **Android Security Patch Level**: December 05, 2017
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/
- o Updated below mentioned components:
  - o MXMF – Version 7.1.3.0
  - o DataWedge – Version 6.6.50

- o EMDK – Version 6.7.10.1010
- o StagingClient – Version 2.9.1.1373

- o SPR32628 – Resolved the issue, where buffering keystrokes causes the web page does not work properly.
- o SPR33755 – Resolved an issue wherein Whitelisted Apps were unable to submit XML to MX.
- o SPR33599– Resolved an issue where some of the system apps which was not part of applock whitelist were getting disabled.

- o SPR33233 - Resolved an issue wherein the DataWedge 6.2.24 could not replace separator or non-printable ascii character with $.

- o SPR32463 - Resolved an issue wherein the StageNow File Manager downloads frequently fails due to Socketimeout exception.
- o SPR32676 - Resolved an issue wherein DataWedge crashes due to velocity application profile creation.

5. CFE v8 Updates:
❖
CFE-ET50-L-XX-010821-N-00-08.zip (Non-GMS)

1. **Android Security Patch Level**: September 05, 2017
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

- o Corrections for KRACK vulnerabilities applied.

6. CFE v7 Updates:
❖
ET50-L-010821-N-SEPOLICYv2.zip (Non-GMS)

CFE-ET50-L-XX-010821-N-00-07.zip (Non-GMS)

1. **Android Security Patch Level**: September 05, 2017
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

- o Resolved an issue in MX to prevent leakage of configuration parameters.
- o Included fix for BlueBorne vulnerability.
- o SPR32615 – Resolved an issue wherein the device goes to sleep, even while scanning the barcodes.
- o SPR32894 – Resolved an issue wherein the Airwatch fails to install package because MX reports a 'permission error'.
- o SPR32956 – Resolved an issue wherein the Airwatch agent switches between v1.3 and v6.2.

7. CFE v6 Updates:
❖
CFE-ET50-L-XX-010821-N-00-06.zip (Non-GMS)

1. **Android Security Patch Level**: August 05, 2017
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

- o SPR32135 – Resolved an issue wherein Settings screen does not revert to its normal state even though the locale language is changed from Arabic to English via EMDK.
- o SPR30401 – Added support to get the CFE version via MDM clients.
- o SPR32126 – Resolved an issue wherein Stock Browser gets enabled automatically after reboot even though user has disabled the app in settings.
- o SPR32469 – Resolved an issue wherein the device is setting static IP while it is connected to a network via Ethernet Cradle.
- o SPR32546 – Resolved an issue wherein the Airwatch crash is observed when the AW whitelist is configured with certain restrictions.

- o SPR32733 – Added a feature to support BLE advertising.
- o SPR32527 – Resolved an issue where more than 8 Bluetooth devices were not able to pair/unpair.

8. CFE v5 Updates:
❖
   CFE-ET50-L-XX-010821-N-00-05.zip (Non-GMS)

1. **Android Security Patch Level**: June 05, 2017
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

- o SPR31230 – Resolved an issue wherein the wireless connection locked / dropped when SIP client is running
- o SPR31276 – Resolved an issue wherein the ping loss is observed with extremely slow web connection.
- o SPR32188 – Resolved an issue wherein device locks up during FT roaming (802.11r).
- o SPR29912 – Resolved an issue wherein Certificate installation failure is observed while installing via StageNow/EMDK.
- o SPR32008 – Resolved an issue wherein the embedded carriage return gets transmitted as a space.
- o SPR32193 – Resolved an issue wherein Authentication failures were observed with EAP TLS.
- o SPR32230 – Resolved an issue wherein Authentication failures were observed due to missing user Certificates.

9. CFE v4 Updates:
❖
   CFE-ET50-L-XX-010821-N-00-04.zip (Non-GMS)

1. **Android Security Patch Level**: May 05, 2017
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

- p SPR 31559 – Resolved an issue wherein the WAN custom Proxy does not work with gprs manager
- o SPR32038 – Resolved an issue wherein the device wipe takes few more attempts than the configured number.
- o Added bios support for new imx175 camera module

10. CFE v3 Updates:
   CFE-ET50-L-XX-010821-N-00-03.zip (Non-GMS)

2. **Android Security Patch Level**: April 5, 2017
Use the below link to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/

11. CFE v2 Updates:
❖
   CFE-ET50-L-XX-010821-N-00-02.zip (Non-GMS)

- o SPR31598 - Included configurability option to enable/disable network monitor warning pop-up

   messages.

   To Disable Warning, you need to place a file namely 'networkinfo.txt' populated with content Value=false into "/enterprise/usr/" path and reboot the device for the change to apply.
   To Enable Warning back (in case you had disabled it earlier) you need to place a file namely 'networkinfo.txt' populated with content Value=true into "/enterprise/usr/" path and reboot the device for the change to apply.

- o SPR31733 - Resolved an issue wherein Wi-Fi connection switches between 2.4GHz and 5GHz band.

  12. CFE v1 Updates:
  - ❖
    CFE-ET50-L-XX-010821-N-00-01.zip (Non-GMS)
  - ☐ SPR30979 - Fixed the issue, when the ET5x is re-docked in the cradle, USB devices are not visible
  - o SPR30992 - Resolved an issue wherein the touch panel was sluggish when used with web browser or web view app.

Device Compatibility

This software release has been approved for Android ET50 L Non-GMS models mentioned below.

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

Installation Requirements

ADB installed on the PC (including adb drivers)
> USB debugging turned ON (from Developer options)
> ET50 Non-GMS has at least:
>> Version 01-08-21-L-0R-M1.161012 build
>> OR
>> Version 01-08-21-L-0R-M1 build with CFE versionX (x=1, 2…) software update

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%

IMPORTANT NOTE:

CFE v12 HAS BEEN RELEASED IN THIS POSTING.

> CFE v12:
> CFE-ET50-L-XX-010821-N-00-12.zip (Non-GMS)

i. If the device has $01\text{-}08\text{-}21\text{-}L\text{-}0R\text{-}M1.161012$ build or CFE versionX (X=1, 2….), then CFE v12 needs to be applied.

To see what Non-GMS CFE version is currently on the device, go to "Settings" and scroll down to "About tablet" and look at the "Build number".

If it displays "**01-08-21-L-0R-M1.161012**" (Non-GMS), the device has base build.

If it displays "**01-08-21-L-0R-M1**" and **Zebra patch version** shows "1", then the device is Non-GMS with CFE v1 software update

CFE software update procedure for ET50:

1. Connect the USB cable from your PC to the device and enable USB mass storage mode on the device.

2. On your PC you should see an internal and external USB mass storage drive (SD card) appears in the File Explore and copy " CFE-ET50-L-XX-010821-N-00-12.zip" files to any storage.

3. Press and hold on the device Power button, click on power off and wait until the screen is turned OFF.

4. Press and hold power and Vol- button.

5. Keep holding Vol- button and release power button.

6. Click on Vol+ or Vol- to navigate and press power button to select recovery mode.

7. Device should enter recovery mode.

8. if applying update via Sideload Method

   a. Use the Volume + and – to highlight, "Apply update from ADB" and press the Power Key to select it

   b. With your Command Prompt open in the Host machine, type "adb sideload" command and add a space and then drag and drop the CFE on to it and click enter.

   c. Your PC screen will show files being installed and a little blue horizontal progress bar on your device will show status… and after about 6 minutes it should be done and you should be back at the Android Recovery screen.

   d. *"Reboot system now"* is highlighted. Press the Power Key to Reboot.

9. If applying update via SD card.

   a. Click on Vol+ or Vol- to navigate and select SD card or internal storage. Press power button to select it.

   b. Click on Vol+ or Vol- to navigate to the recovery update zip file.

   c. Click on power button to select and start the recovery update process.

   d. Device will automatically reboot and will be ready to use.

10. There are two ways to Check the Android Patch Level after installing the CFE package in the device,

    Should be Settings->About Device-> Zebra Patch Version: 12

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

11. After installed the CFE-ET50-L-XX-010821-N-00-12 on the device, the OS build number would be

    01-08-21-L-0R-M1.161012 (Settings->About Device->Build Number: **01-08-21-L-0R-M1.161012**).

12. Now you are all set to use your **ET50**.

Downloadable Software Included in this Release

Filename	Description
CFE-ET50-L-XX-010821-N-00-12.zip	OTA incremental CFE v12 update software for Non-GMS build

Last Revised: <10-03-2018>