Release Notes – Zebra TC51, TC56, TC70x and TC75x Android M – LifeGuard Update 10 Release for GMS

Contents

Description

This release contains the following software package which is compatible with the TC51, TC56, TC70x and TC75x products.

LifeGuard patches are cumulative and include all previous fixes that are part of earlier patch releases.

1. **CFE v10 Updates:**
   ❖ CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-10.zip (GMS)

   1. Android Security Patch Level: March 5, 2018.

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

   2. Updated below mentioned components:
      o MXMF – Version 7.2.1.0
      o DataWedge – Version 6.7.39
      o EMDK – Version 6.8.21
      o StagingClient – Version 2.10.1.1389
      o File Browser --1.19.1.2
      o DDT -- 1.15.0.11

   3. SPR 33558 – Resolved an issue wherein wakeup sources were not working correctly.

   4. SPR 34145 – Resolved an issue wherein WEP Key Index does not persist after device reboot or Wi-Fi restart.

   5. SPR 33729 - Resolved an issue wherein device does not behave consistently with respect to the "Same Symbol Timeout" setting.

6. SPR 33639 - Resolved an issue wherein the device stops emitting scan beam after waking up from suspend.

7. SPR 33709 – Intercharacter delay has been added in the DW.

8. SPR 33311/34046 – Resolved an issue wherein audio loss in Bluetooth headset is observed when ring scanner is disconnected during the audio record.

9. SPR 33538 – Resolved an issue wherein scanner beam stuck off when pressing scanner button.

10. SPR 33799 - Resolved an issue wherein DW incorrectly sends char 10 instead of char13.

11. SPR 33812 – Resolved an issue wherein screen lock none choice is not visible when using an Australian SIM.

12. SPR 33862/34493 – Resolved an issue wherein device screen timeout setting using display manager is not working correctly.

Known Issues and Fixes:

1. SPR 34303 – JS keyevents are not working in CFE v7 or higher
Push a file named "CustomFeatures.ini" with value "persist.sys.custom.unbuffered=true" (without quotes) to /enterprise/usr/persist and reboot to get the JS keyevents working.

2. SPR 34353 - Rxlogger can throw an EOF error
Change buffer size using Settings -> Developer Options / Logger Buffer Sizes from 256K to 4M or via an adb command adb logcat -G 5M

2. CFE v9 Updates:
   ❖ CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-09.zip (GMS)

1. Android Security Patch Level: January 5, 2018.

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

2. Spectre and Meltdown (CVE-2017-5753, 5715, 5754) remediation provided by updates to timer access for CVE-2017-13218.

3. CFE v8 Updates:
   ❖ CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-08.zip (GMS)

1. Android Security Patch Level: January 5, 2018.
Use the link below to see the Android Security bulletin for more information:
https://source.android.com/security/bulletin/

2. SPR33463 - Resolved an issue wherein device receives the PTT Event but not scan key event.

3. SPR33599 – Resolved an issue wherein few system apps were being disabled after Applock whitelist mode was enabled.

4. SPR33521 – Resolved an issue wherein PingID application was failed to run.

5. SPR33755 - Resolved an issue wherein Whitelisted Apps were unable to submit XML to MX

6. SPR33462 – Resolved an issue wherein the Key remapping was not working properly during suspend/resume

4. **CFE v7 Updates:**
   ❖ CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-07.zip (GMS)

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

   2. Added support for IrDA feature for TC75x SKU TC75EK-2MB54AB-US (GMS Only).

   3. Added support for Wi-Fi Direct and Miracast features.

   4. Resolved an issue wherein IsoDep and MifareClassic dual interface cards were not read properly.

   5. SPR33302 – Resolved an issue wherein disabling the oval capacitive key via StageNow fails on TC70x and TC75x SKUs.

   6. SPR33153 – Resolved an issue wherein device scans "phantom" barcodes.

   7. SPR33049 – Resolved an issue wherein device asking for boot password when password is set via API.

   8. SPR32872 – Resolved an issue wherein keystroke output is not received when input is taken off input field.

   9. Added APN Settings for AT&T Mexico.

5. **CFE v6 Updates:**
   ❖ CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-06.zip (GMS)

   1. Android Security Patch Level: November 6, 2017.
      Use the link below to see the Android Security bulletin for more information:
      https://source.android.com/security/bulletin/
   2. Corrections for KRACK vulnerabilities applied.

   3. SPR33303 - Updated File Browser v1.19.1.0 that resolves an APK installation issue through
      File Browser.

   4. SPR33306 - Updated File Browser v1.19.1.0 that resolves an alignment problem of files and
      folders in list view.

   5. SPR33307 - Updated File Browser v1.19.1.0 that resolves an issue where file copy was not
      working through File browser.

   6. SPR32880 - Fixed an issue wherein it was not possible to remap the right-side trigger button (SCAN_R) through Stage Now.

6. **CFE v5 Updates:**
   ❖ CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-05.zip (GMS)

   1. Android Security Patch Level: September 5, 2017.
      Use the link below to see the Android Security bulletin for more information:
      https://source.android.com/security/bulletin/
   2. SPR32387 Resolved an issue wherein TC51 failed to join multicast group.

   3. SPR32894 Resolved an issue wherein the Airwatch Agent is denied permission to use MX.

4. Included fix for BlueBorne Vulnerability.

5. Resolved an issue in MX to prevent leakage of configuration parameters.

6. SPR31931 Resolved an issue wherein TC75x doesn't get IP address.

7. SPR32781 Resolved an issue wherein wrong APN is selected sometimes after reset.

IMPORTANT NOTE:

CFE v1, v2, v3, v4 are not posted as it was used internally by Zebra & not released to any customers.

Device Compatibility

This software release has been approved for Android TC51, TC56, TC70x and TC75x Marshmallow GMS models mentioned below.

Device	Operating System
TC510K-1PAZU2P-US	Android M
TC510K-1PAZU2P-A6	Android M
TC510K-1PAZU4P-US	Android M
TC510K-1PAZU4P-A6	Android M
TC510K-1PAZU4P-FT	Android M
TC510K-1HDZU4P-FT	Android M
TC510K-1HDZU2P-US	Android M
TC510K-1HDZU4P-US	Android M
TC510K-1HDZU2P-A6	Android M
TC510K-1HDZU4P-A6	Android M
TC56CJ-1PAZU2P-A6	Android M
TC56CJ-1PAZU4P-A6	Android M
TC56DJ-1PAZU2P-A6	Android M
TC56DJ-1PAZU4P-A6	Android M
TC56DJ-1PAZU2P-IA	Android M
TC56DJ-1PAZU4P-IA	Android M
TC56DJ-1PAZU4P-BR	Android M
TC56DJ-1PAZU2P-BR	Android M
TC56DJ-1PAZU4P-ID	Android M
TC56DJ-1PAZU2P-ID	Android M
TC56CJ-1PAZU4P-FT	Android M
TC56CJ-1PAZU2P-US	Android M
TC56CJ-1PAZU4P-US	Android M
TC75FK-2MB22AD-A6	Android M
TC75FK-2MB24AD-A6	Android M
TC75FK-2MB22AD-BR	Android M
TC75FK-2MB22AD-IA	Android M
TC75FK-2MB22AD-ID	Android M
TC75FK-2MB22AD-TN	Android M
TC75FK-2MF22AD-A6	Android M
TC75FK-2MB22AD-TW	Android M
TC75GK-2MB22AD-A6	Android M
TC75GK-2MB24AD-A6	Android M
TC75GK-2MF22AD-A6	Android M
TC700K-0MB22B0-A6	Android M
TC700K-0MB24B0-A6	Android M
TC75EK-2MB22AB-US	Android M

TC75EK-2MF22AB-US	Android M
TC75EK-2MB22AF-US	Android M
TC75EK-2MB24AB-US	Android M
TC75EK-2MB54AB-US	Android M

Component Contents

Component / Description	Version
Product Build Number	01-21-04.1-MG-00-UPDATE010
Android Version	6.0.1
WLAN	FUSION_BA_2_10.0.2.009_M
MX version	7.2.1.0

Installation Requirements

- ADB installed on the PC (including adb drivers)
- USB debugging turned ON (from Developer options)
- TC51/TC56/TC70x/TC75x has at least:
  - Version 01-21-04.1 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%

CFE software update procedure for TC51, TC56, TC70x and TC75x:

1. Plug the TC51/TC56/TC70x/TC75x into the USB & Charging Cable and then the Cable to the PC. If you have a Cradle with USB connectivity, connect it now.

2. You may need to pull down the top menu and if you see "USB for charging", touch it and then change it to "File transfers".

3. Open Command Prompt, run *"adb devices"* and check to see if you are able to see the device's serial number… If yes, proceed… if not you will need to get the PC set up with the proper drivers or install an External SD Card.

4. On device you will see "USB for Charging" USB applet popup, once connected to any windows PC, click on this and change to "File Transfer" this way your PC will see Internal Storage Folder of the Device.

   a. *Note*: If you have an External SD Card installed, you can drag & drop the files on that card to perform the Recovery update that way… if not, continue with the ADB Sideload.

   ❖ Download Image CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-10.zip

5. Entering in Recovery Mode

a. Choice 1: In Command Prompt, type *"adb reboot recovery" and click enter*.

b. Choice 2:

- Reset and hold PTT key

- When Zebra Technologies logo appears on the screen Release the PTT Key

6. Your TC51/TC56/TC70x/TC75x will reboot and put you on the Android Recovery screen.

7. 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

8. if applying update via External SD card

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

b. Use the Volume + and – to highlight package CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-10.zip and press the Power Key to select it.

c. Go to Step 10 once above steps are completed

9. With your Command Prompt open, type *"adb sideload" and add a space and then* drag and drop the CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-10.zip on to it and click enter.

a. 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 *(could be 10+ minutes if installing GMS)* it should be done and you should be back at the Android Recovery screen.

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

11. At the Home Screen, we need to verify that the BSP upgrade took place and set the Date & Time.

- Go to "Settings" and scroll down to "About phone" and look at the "Build number". It should display "**01-21-04.1-MG-00-UPDATE010 release keys**". Now you are on the correct BSP.

12. Now you are all set to use your **TC51/TC56/TC70x/TC75x**.

Downloadable Software Included in this Release

Filename	Description
CFE-TC51_TC56_TC70x_TC75x-M-XX-21-04.01-G-00-10.zip	OTA incremental CFE v10 update software for GMS build compatible for TC51, TC56, TC70x & TC75x products.

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