# Release Notes – Zebra TC51, TC56, TC70x and TC75x Android M – Update 13 Release for Non-GMS

## Contents

**Description** 

**Component Contents** 

**Device Compatibility** 

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Installation Instructions

Downloadable Software included in this Release

## **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.

## **Component Contents**

Component / Description	Version
Product Build Number	01-21-04.1-MN-00-UPDATE013
Android Version	6.0.1
Linux Kernel	3.10.84
x-loader	NA
u-boot	NA
Android SDK Level	23
Platform	QC 8956
Bluetooth Stack	NA
Partition Table	NA
Flash Size	16GB
RAM Size	2GB
Active Edge	2.5.13
Airwatch / Rapid Deployment	1.01.04
Analytics Mgr	2.4.0.1140
App Gallery	3.0.1.7

Battery Management         1.3.8           Bluetooth Pairing Utility         3.7.1           Data Analytics Engine         1.0.2.2091           DataWedge         7.0.4           Elemez-B2M         1.0.0.347           EMDK         7.0.0.2000           Enterprise Keyboard         1.9.0.9           GMS         R12           MX version         8.2.4.2           NFC         4.3.0_M           OSX         QCT.60.6.8.1           PTT         3.1.32           RxLogger         4.60.2.0           Scanner         18.8.20.5           SimulScan         SimulScanDemo: 2.9           SimulScanRes: 1.14.11         SMARTMU           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Volume Control (ZVC)         2.0.0.12           File Browser         1.19.1.5	Audio (Microphone and Speaker)	0.31.3.0
Data Analytics Engine         1.0.2.2091           DataWedge         7.0.4           Elemez-B2M         1.0.0.347           EMDK         7.0.0.2000           Enterprise Keyboard         1.9.0.9           GMS         R12           MX version         8.2.4.2           NFC         4.3.0_M           OSX         QCT.60.6.8.1           PTT         3.1.32           RxLogger         4.60.2.0           Scanner         18.8.20.5           SimulScan         SimulScanDemo: 2.9           SimulScanRes: 1.14.11         SMARTMU           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	Battery Management	1.3.8
DataWedge         7.0.4           Elemez-B2M         1.0.0.347           EMDK         7.0.0.2000           Enterprise Keyboard         1.9.0.9           GMS         R12           MX version         8.2.4.2           NFC         4.3.0_M           OSX         QCT.60.6.8.1           PTT         3.1.32           RxLogger         4.60.2.0           Scanner         18.8.20.5           SimulScan         SimulScanDemo: 2.9           SimulScanRes: 1.14.11           SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Volume Control (ZVC)         2.0.0.12	Bluetooth Pairing Utility	3.7.1
Elemez-B2M	Data Analytics Engine	1.0.2.2091
EMDK 7.0.0.2000  Enterprise Keyboard 1.9.0.9  GMS R12  MX version 8.2.4.2  NFC 4.3.0_M  OSX QCT.60.6.8.1  PTT 3.1.32  RxLogger 4.60.2.0  Scanner 18.8.20.5  SimulScan SimulScanDemo: 2.9  SimulScanRes: 1.14.11  SMARTMU 2.1  SOTI / MobiControl 13.3.0 Build 1059  StageNow 3.1.1.1019  Touch Panel 1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56) 1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)  WLAN FUSION_BA_2_10.0.5.012_M  WWAN (Data or Voice) FALCON-W160411A-228.1-00101.47  Zebra Device Diagnostic Tool 1.5  Zebra Volume Control (ZVC) 2.0.0.12	DataWedge	7.0.4
Enterprise Keyboard         1.9.0.9           GMS         R12           MX version         8.2.4.2           NFC         4.3.0_M           OSX         QCT.60.6.8.1           PTT         3.1.32           RxLogger         4.60.2.0           Scanner         18.8.20.5           SimulScan Demo: 2.9         SimulScanRes: 1.14.11           SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	Elemez-B2M	1.0.0.347
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NFC         4.3.0_M           OSX         QCT.60.6.8.1           PTT         3.1.32           RxLogger         4.60.2.0           Scanner         18.8.20.5           SimulScan Demo: 2.9         SimulScanRes: 1.14.11           SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	GMS	R12
OSX         QCT.60.6.8.1           PTT         3.1.32           RxLogger         4.60.2.0           Scanner         18.8.20.5           SimulScanDemo: 2.9           SimulScanRes: 1.14.11           SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	MX version	8.2.4.2
PTT         3.1.32           RxLogger         4.60.2.0           Scanner         18.8.20.5           SimulScanDemo: 2.9         SimulScanRes: 1.14.11           SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	NFC	4.3.0_M
RxLogger       4.60.2.0         Scanner       18.8.20.5         SimulScanDemo: 2.9       SimulScanRes: 1.14.11         SMARTMU       2.1         SOTI / MobiControl       13.3.0 Build 1059         StageNow       3.1.1.1019         Touch Panel       1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56) (1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X))         WLAN       FUSION_BA_2_10.0.5.012_M         WWAN (Data or Voice)       FALCON-W160411A-228.1-00101.47         Zebra Device Diagnostic Tool       1.5         Zebra Volume Control (ZVC)       2.0.0.12	OSX	QCT.60.6.8.1
Scanner         18.8.20.5           SimulScan         SimulScanDemo: 2.9           SimulScanRes: 1.14.11           SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	PTT	3.1.32
SimulScanDemo: 2.9           SimulScanRes: 1.14.11           SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56) 1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	RxLogger	4.60.2.0
SimulScanRes: 1.14.11     SMARTMU   2.1     SOTI / MobiControl   13.3.0 Build 1059     StageNow   3.1.1.1019     Touch Panel   1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)     1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)     WLAN   FUSION_BA_2_10.0.5.012_M     WWAN (Data or Voice)   FALCON-W160411A-228.1-00101.47     Zebra Device Diagnostic Tool   1.5     Zebra Volume Control (ZVC)   2.0.0.12	Scanner	18.8.20.5
SMARTMU         2.1           SOTI / MobiControl         13.3.0 Build 1059           StageNow         3.1.1.1019           Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56) 1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	SimulScan	
SOTI / MobiControl       13.3.0 Build 1059         StageNow       3.1.1.1019         Touch Panel       1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56) 1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)         WLAN       FUSION_BA_2_10.0.5.012_M         WWAN (Data or Voice)       FALCON-W160411A-228.1-00101.47         Zebra Device Diagnostic Tool       1.5         Zebra Volume Control (ZVC)       2.0.0.12	ON A A DITAIL	
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Touch Panel         1.8-Stylus-2-0, 1.8-Glove-2-0 (TC51/56)           1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)           WLAN         FUSION_BA_2_10.0.5.012_M           WWAN (Data or Voice)         FALCON-W160411A-228.1-00101.47           Zebra Device Diagnostic Tool         1.5           Zebra Volume Control (ZVC)         2.0.0.12	SOTI / MobiControl	13.3.0 Build 1059
1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/70X)   WLAN	StageNow	3.1.1.1019
WWAN (Data or Voice) FALCON-W160411A-228.1-00101.47  Zebra Device Diagnostic Tool 1.5  Zebra Volume Control (ZVC) 2.0.0.12	Touch Panel	
Zebra Device Diagnostic Tool 1.5  Zebra Volume Control (ZVC) 2.0.0.12	WLAN	FUSION_BA_2_10.0.5.012_M
Zebra Volume Control (ZVC) 2.0.0.12	WWAN (Data or Voice)	FALCON-W160411A-228.1-00101.47
` '	Zebra Device Diagnostic Tool	1.5
File Browser 1.19.1.5	Zebra Volume Control (ZVC)	2.0.0.12
	File Browser	1.19.1.5

#### 1. CFE v13 Updates:

- CFE-TC51\_TC56\_TC70x\_TC75x-M-XX-21-04.01-N-00-13.zip (Non-GMS)
- Android Security Patch Level: July 1, 2018 (Critical Patch Level:2018-10-01).
   Use the link below to see the Android Security bulletin for more information: https://source.android.com/security/bulletin/
- 3. Updated below mentioned components:
  - o MXMF Version 8.2.4.2
  - o EMDK Version 7.0.0.2000
  - o StageNow Version 3.1.1.1019
  - o Scanner Version 18.8.20.5
  - o DataWedge Version 7.0.4
  - o EKB Version 1.9.0.9
  - o WLAN Version FUSION\_BA\_2\_10.0.5.012\_M
  - o Analytics Mgr Version 2.4.0.1140
  - o OSX Version QCT.60.6.8.1

For more detail please refer http://techdocs.zebra.com

1. SPR33207 - Resolved an issue wherein the Device Diagnostic tool had an issue with reading the Battery Cycles in the application for PP+ batteries.

- 2. SPR35021 Resolved an issue where Auto PAC Proxy settings are not preserved after Android desert update.
- 3. SPR35577 Resolved an issue where WiFi connection is affected because of Bluetooth scanner operation.
- 4. SPR34771 Resolved a synchronization issue in Mx.
- 5. SPR35188 Disabled QC Quick Charge 3.0 which allows the device to charge at 9v (since many 3rd party cables are rated for only 5v use).
- 6. SPR34441 Resolved an issue where inline images were not being displayed in Email.
- 7. SPR35288 Fixed an issue wherein initialization of scanner was taking ~1sec.
- 8. SPR35665 Resolved an issue wherein Google keyboard settings was not persisting through a reboot when configured directly after factory reset.
- 9. SPR34771 Resolved a synchronization issue in Mx.
- SPR34429 Resolved an issue wherein DataWedge failed to load "default Profile0".
- 11. SPR34972 Implemented new parameters in scanner\_input\_plugin API so that the API takes considerable less time to suspend/re-enable of the scanner.
- 12. SPR34844 Fixed and issue wherein Multiple Scanner Enable Calles were allowed by same application.
- 13. SPR35491/35856 Resolved an issue where in Analytics Manager was throwing "Index out of bound error " when a StageNow Barcode is scanned
- 14. CPR24889 Resolved an issue wherein device was overheating when placed in a cradle.
- 15. CVE-2018-5383 was corrected preventing unauthenticated BT pairing.
- 16. Included Zebra Software License Manager v3.1.1.
- 17. Added new APN for Telstra-M2M.
- 18. Data Analytics changes:
  - o DataAnalytics has been renamed to Zebra Data Service.
  - o DAInBuiltDCA has been renamed to Zebra Data Service Plugin.
  - o SettingsEULA has been renamed to Zebra Data Services.

#### 2. CFE v12 Updates:

- CFE-TC51\_TC56\_TC70x\_TC75x-M-XX-21-04.01-N-00-12.zip (Non-GMS)
- 1. Resolved an issue wherein DataWedge ANR was seen on enrolling to SOTI DO mode via Hash tagging method.
- 2. SPR35216/SPR35025: Fixed an issue where Auto Proxy PAC (Pac Service and Proxy Service) was not recovering properly if killed for any reason.
- 3. SPR35062: Fixed an issue wherein setting Default Launcher was failing when more than one third party launcher was installed in the device

#### 3. CFE v11 Updates:

- ❖ CFE-TC51\_TC56\_TC70x\_TC75x-M-XX-21-04.01-N-00-11.zip (Non-GMS)
- 1. Android Security Patch Level: July 1, 2018.

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

- 4. Updated below mentioned components:
  - o MXMF Version 8.0.2.0
  - o EMDK Version 6.9.16.1216
  - StageNow Version 3.0.1.1038
  - o File Browser Version 1.19.1.5
  - o Scanner Version 18.8.20.2
  - DataWedge Version 6.8.54
  - o EKB Version 1.8.0.8
  - o WLAN Version FUSION\_BA\_2\_10.0.0.4.011\_M
- 3. SPR35116 Resolved an issue wherein the data limit and warning couldn't be set through the UI.
- 4. SPR34784 Fixed an issue wherein Programmatic OS Updates via MDM used to fail after a battery swap.
- 5. SPR34760/34417 Resolved an issue wherein device did not respond for any incoming traffic when kept in low coverage area for longer duration.
- 6. SPR34353 Fixed an issue wherein logging used to get truncated with unexpected EOF error.
- 7. SPR34810 Resolved an issue wherein there was an audio latency during a VOIP call due to buffering limit.
- 8. SPR34308 Added support for generic margin-less barcode decoding and reduced quite zone.
- 9. SPR34300 Enabled Screen rotation in the Lock Screen.
- 10. SPR34046 Resolved an issue wherein there were Bluetooth scanner disconnections noticed while audio was being played simultaneously on BT headset.
- 11. SPR34448 Resolved an issue wherein sdcard was not being detected after a suspend/resume.
- 12. SPR34627 Resolved an issue wherein devices are unable to enroll into Soti as DO using Hashtag Method.
- 13. SPR34277 Resolved an issue with the battery swap procedure wherein an incorrect removal of the battery didn't restore few settings to its original state.
- 14. SPR34338 Resolved an issue where device did not respond for EAP packets because of false framework event.
- 15. SPR34310 Fixed an issue wherein CancelRead API was not working when Continuous Mode was enabled.
- 16. SPR34432 Resolved an issue wherein NTP was not able to sync time based on the interval.
- 17. SPR33936 Fixed an issue wherein Camera shutter sound was audible even when the device was in Mute or Vibrate mode.
- 18. SPR33298 Resolved scanner picklist performance issues.
- 19. SPR34036 Resolved an issue wherein device did not connect to Aruba Infra because of a DHCP Infra issue.
- 20. SPR34717 Added support for new method of creating the Applock Whitelist.
- 21. CPR24801 LEAP Profile support is added.
- 22. SPR34716 Resolved an issue wherein MX Framework did not restart after being killed due to Backup.
- 23. SPR34816 Fixed an issue in DataWedge wherein scanner could not be enabled due to quick enabling and disabling of scanner through Intents.

- 24. SPR34307/33607 Resolved an issue wherein few fresh devices were unable to stage after unboxing the device.
- 25. SPR34083/34014/32519 Resolved an issue wherein disabling WWAN radio via Airwatch using StageNow XML fails.
- SPR33599 Resolved an issue wherein few system apps were being disabled after Applock whitelist mode was enabled.
- 27. SPR33299 Fixed an issue wherein a device's battery percentage displayed 255% indefinitely and the device would not charge while in this state.
- 28. SPR33818 Fixed an issue wherein certain decoder type values were not persisting across a scanner enable/disable cycle.
- 29. SPR33755 Resolved an issue wherein the Whitelisted apps were unable to submit XML to MX.
- 30. SPR33671 Resolved an issue wherein the profile creation used to fail if the username included "\" character.
- 31. SPR34267 Resolved an issue wherein user was not able to enable USB debugging option using StageNow.
- 32. SPR33862/33876 Fixed an issue wherein user could not set Display Timeout value of 30 min using StageNow.
- 33. SPR33848 Added a new category field in the Intent Manager.
- 34. SPR33639 Resolved an issue wherein the customer app install and launch during device sleep state and device stopped emitting scan beam after awake from suspend.
- 35. SPR33977 Fixed an issue wherein user would see duplicate time zone entries after configuring date and time using StageNow.
- 36. SPR33981 Fixed an issue wherein Czech Republic could not be set as Regulatory country while configuring WLAN profile using StageNow.
- 37. SPR34213 Resolved an issue wherein shared preference initialization without launching EKB.
- 38. SPR34179 Resolved an issue wherein there was a delay in data transfer in 5GHz network.
- SPR34278 Resolved an issue wherein WLAN was disconnecting during BT connection establishment.

#### 4. CFE v10 Updates:

- CFE-TC51 TC56 TC70x TC75x-M-XX-21-04.01-N-00-10.zip (Non-GMS)
- 1. Android Security Patch Level: March 5, 2018.

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

- 5. Updated below mentioned components:
  - MXMF Version 7.2.1.0
  - DataWedge Version 6.7.39
  - EMDK Version 6.8.21
  - StagingClient Version 2.10.1.1389
  - o File Browser -- 1.19.1.2
  - o DDT -- 1.15.0.11
- 6. SPR 33558 Resolved an issue wherein wakeup sources were not working correctly.

- 7. SPR 34145 Resolved an issue wherein WEP Key Index does not persist after device reboot or Wi-Fi restart.
- 8. SPR 33729 Resolved an issue wherein device does not behave consistently with respect to the "Same Symbol Timeout" setting.
- 9. SPR 33639 Resolved an issue wherein the device stops emitting scan beam after waking up from suspend.
- 10. SPR 33709 Intercharacter delay has been added in the DW.
- 11. SPR 33311/34046 Resolved an issue wherein audio loss in Bluetooth headset is observed when ring scanner is disconnected during the audio record.
- 12. SPR 33538 Resolved an issue wherein scanner beam stuck off when pressing scanner button.
- 13. SPR 33799 Resolved an issue wherein DW incorrectly sends char 10 instead of char13.
- 14. SPR 33812 Resolved an issue wherein screen lock none choice is not visible when using an Australian SIM.
- 15. SPR 33862/34493 Resolved an issue wherein device screen timeout setting using display manager is not working correctly.

#### **Known Issues and Fixes:**

- 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.
- 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

#### 5. CFE v9 Updates:

- ❖ CFE-TC51\_TC56\_TC70x\_TC75x-M-XX-21-04.01-N-00-09.zip (Non-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.

#### 6. CFE v8 Updates:

- ❖ CFE-TC51\_TC56\_TC70x\_TC75x-M-XX-21-04.01-N-00-08.zip (Non-GMS)
- 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.

#### 7. CFE v7 Updates:

CFE-TC51\_TC56\_TC70x\_TC75x-M-XX-21-04.01-N-00-07.zip (Non-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 Wi-Fi Direct and Miracast features.
- 3. Resolved an issue wherein IsoDep and MifareClassic dual interface cards were not read properly.
- 4. SPR33302 Resolved an issue wherein disabling the oval capacitive key via StageNow fails on TC70x and TC75x SKUs.
- 5. SPR33153 Resolved an issue wherein device scans "phantom" barcodes.
- 6. SPR33049 Resolved an issue wherein device asking for boot password when password is set via API.
- 7. SPR32872 Resolved an issue wherein keystroke output is not received when input is taken off input field.
- 8. Added APN Settings for AT&T Mexico.

#### 8. CFE v6 Updates:

❖ CFE-TC51\_TC56\_TC70x\_TC75x-M-XX-21-04.01-N-00-06.zip (Non-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.
- 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.

#### 9. CFE v5 Updates:

- CFE-TC51 TC56 TC70x TC75x-M-XX-21-04.01-N-00-05.zip (Non-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 where in 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 where in 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 Non-GMS models mentioned below.

Device	Operating System
TC510K-2PAZU2P-US	Android M
TC510K-2PAZU2P-A6	Android M
TC510K-2PAZU4P-US	Android M
TC510K-2PAZU4P-A6	Android M
TC510K-2PAZU4P-FT	Android M
TC510K-2HDZU4P-FT	Android M
TC510K-2HDZU2P-US	Android M
TC510K-2HDZU4P-US	Android M
TC510K-2HDZU2P-A6	Android M
TC510K-2HDZU4P-A6	Android M
TC56CJ-2PAZU2P-A6	Android M
TC56CJ-2PAZU4P-A6	Android M
TC56DJ-2PAZU2P-A6	Android M
TC56DJ-2PAZU4P-A6	Android M
TC56DJ-2PAZU2P-IA	Android M
TC56DJ-2PAZU4P-IA	Android M
TC56DJ-2PAZU4P-BR	Android M
TC56DJ-2PAZU2P-BR	Android M
TC56DJ-2PAZU2P-CN	Android M
TC56DJ-2PAZU4P-CN	Android M
TC56DJ-2PAZU4P-ID	Android M
TC56DJ-2PAZU2P-ID	Android M
TC56CJ-2PAZU4P-FT	Android M
TC56CJ-2PAZU2P-US	Android M
TC56CJ-2PAZU4P-US	Android M
TC75FK-22B22AD-A6	Android M
TC75FK-22B24AD-A6	Android M
TC75FK-22B22AD-BR	Android M
TC75FK-22B22AD-IA	Android M
TC75FK-22B22AD-ID	Android M
TC75FK-22B22AD-TN	Android M
TC75FK-22F22AD-A6	Android M
TC75FK-22B22AD-TW	Android M

TC75GK-22B22AD-A6	Android M
TC75GK-22B24AD-A6	Android M
TC75GK-22F22AD-A6	Android M
TC700K-02B22B0-A6	Android M
TC700K-02B24B0-A6	Android M
TC75EK-22B22AB-US	Android M
TC75EK-22F22AB-US	Android M
TC75EK-22B22AF-US	Android M
TC75EK-22B24AB-US	Android M

## 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-N-00-13.zip
- 5. Entering into 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-N-00-13.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-N-00-13.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 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-MN-00-UPDATE013 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-N-00-13.zip	OTA incremental CFE v13 update software for Non-GMS build compatible for TC51, TC56, TC70x & TC75x products.

Last Revised: <12-21-2018>