

Release Notes – Zebra TC70x and TC75x Android N – LifeGuard Update 07 for GMS

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Introduction

Work more efficiently and better serve your customers by giving your employees enterprise-class handheld computers that survive life in the field or shop floor, communicate and access information in real time.

The TC70x/TC75x is the professional-grade Android device built from the ground up for the enterprise.

- Zebra's Mobility Extensions (Mx)
- Mobility DNA, a suite of mobility enabling applications, development tools and utilities
- Most advanced scan engine with longer range data capture capability
- Rugged and ready for every day enterprise use inside and outside the four walls

Description

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

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

1. CFE v7 Updates:

❖ CFE_ATLAS_P07_NG_01-01.49.zip (GMS)

1. **Android Security Patch Level:** May 1, 2018

Use the link below to see the Android Security bulletin for more information:

<https://source.android.com/security/bulletin/>

2. Fix for Zebra setup wizard popup after OS upgrade.

3. **Updated below components:**

- MX: 8.0.0.10
- StageNow client: 3.1.0.1037
- DataWedge: 6.8.50
- Enterprise Keyboard: 1.8.0.8

4. Build ID format has been updated.

5. Included Zebra Software License Manager v3.0.1.

6. Included support for IrDA in TC75x (TC75EK US SKUs).

7. SPR34179 – Resolved an issue wherein device connects slowly to an AP.

8. SPR34175 – Resolved an issue wherein device does not show preview information in Messaging App when language toggles from right-to-left.

9. SPR34259 – Added support to use USBMgr CSP to limit the standard 4 options on device to only allow UsbExternalStorageUsage.

10. SPR34307 – Resolved an issue wherein the device was unable to be staged via StageNow.

11. SPR34083/34014/32519 – Resolved an issue wherein disabling WWAN radio via Airwatch using StageNow XML fails.

12. SPR33977 – Resolved an issue wherein set time zone issue observed with StageNow.

13. SPR34213/31491 – Resolved an issue wherein the device was unable to stage via StageNow.

14. SPR34420 – Resolved an issue wherein floating scan bubble issue observed with Enterprise Keyboard.

15. SPR33755 - Resolved an issue wherein the Whitelisted apps were unable to submit XML to MX.

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

17. SPR33671 - Resolved an issue wherein user was unable to create WIFI profile with username as backslash followed by number.

18. SPR33862 - Resolved an issue wherein the Screen Time off settings using Display manager CSP was not working.

19. SPR34145 - Resolved an issue wherein indexing of the WEP key was not handled correctly.
20. SPR33973 - Resolved an issue wherein erroneously loading default profile by providing feature to ignore disabled profiles in DataWedge.
21. SPR33848 - Added support to included category field in intent profile in StageNow.
22. SPR34189 - Resolved an issue wherein low ram and oom limit adjustments to provide more free memory.
23. SPR33876 - Resolved an issue wherein Display Timeout was unable set via StageNow.
24. SPR33607 - Resolved an issue where few fresh devices were unable to stage after unbox the device.
25. SPR33538 - Resolved an issue wherein the Scanner beam stuck off and No LED beam while pressing scanner button.
26. SPR33981 - Resolved an issue Czech Republic Regulatory Country could not be set using Wifi config profile.
27. Added Enterprise Browser package (com.symbol.enterprisebrowser) to white listed apps.
28. Resolved an issue wherein Settings App crashes while performing "Network Settings Reset".
29. A new device settings menu and an initial setup screen have been added to easily configure the Zebra analytics engine. The initial setup screen will be displayed upon bootup following an Enterprise Reset or Factory Reset. This screen can be skipped on an Enterprise Reset by provisioning using a StageNow profile (PowerMgr CSP), similar to what is available for the Google setup wizard bypass.
30. Resolved an issue wherein Bluetooth tethering was not working.
31. Added support for RS507x.
32. Fixed Bluetooth scanner firmware update failure.
33. Fixed "SignalOccurrenceOfThreat" parm is not added in threatStep.

2. CFE v4 Updates:

- ❖ CFE-TC5X_TC7Xx-01-01-49-NG-00-A-04.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 components:**

- Datawedge: 6.7.34
 - StageNow: 2.10.1.1386
 - EMDK: 6.8.20.1120
 - MX: 7.2.0.6
 - File browser: 1.19.1.2
3. Added support for FIPS.
 4. SPR33311 – Resolved an issue wherein RS507 is unable to connect via Bluetooth using Voxware voice application.
 5. SPR33302 – Resolved an issue wherein disabling the oval capacitive key via StageNow fails.
 6. SPR34267 - Resolved an issue wherein the device was failed to enable USB debugging when a barcode was scanned.
 7. 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.
 8. SPR33799 – Resolved an issue wherein DataWedge was sending char 10 instead of char 13.

3. CFE v3 Updates:

- ❖ CFE-TC5X_TC7Xx-01-01-49-NG-00-A-03.zip (GMS)

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

Device Compatibility

This software release has been approved for use with the following Zebra devices. All devices listed below are on Android M or N when they leave the factory.

Device	Operating System
TC75FK-2MB22AD-A6	Android N
TC75FK-2MB24AD-A6	Android N
TC75FK-2MB22AD-IA	Android N
TC75FK-2MB22AD-ID	Android N
TC75FK-2MB22AD-TN	Android N
TC75FK-2MF22AD-A6	Android N
TC75FK-2MB22AD-TW	Android N
TC75FK-2MB22AD-BR	Android N
TC75GK-2MB22AD-A6	Android N
TC75GK-2MB24AD-A6	Android N
TC75GK-2MF22AD-A6	Android N
TC75EK-2MB22AB-US	Android N
TC75EK-2MF22AB-US	Android N

TC75EK-2MB22AF-US	Android N
TC75EK-2MB24AB-US	Android N
TC700K-0MB22B0-A6	Android N
TC700K-0MB24B0-A6	Android N
TC700K-0MB22B0-US	Android N
TC700K-0MB24B0-US	Android N
TC700K-0MB22B0-IA	Android N

Supported FIPS SKUs

Device	Operating System
TC700K-0MB24B0-FT	Android N
TC75EK-2MB24AB-FT	Android N

Component Contents

Component / Description	Version
Product Build Number	01-01-49-NG-00-A-U07-STD
Android Version	7.1.2
Linux Kernel	3.10.84
Android SDK Level	25
Platform	QC8956
Flash Size	16GB/32GB
RAM Size	2GB/4GB
Security Patch Level	May 1,2018
Fusion version	FUSION_BA_2_10.0.0.019_N
Simulscan	V3.0.2
Zebra Volume Control	v2.0.0.16
Zebra Software License Manager	v3.0.1

Installation Requirements

Install baseline 01-01-49-NG-00-A (GMS) build.

Installation Instructions

Using ADB Sideload

The installation instructions assume you have ADB installed on your PC (the adb drivers and such) and your TC70x/TC75x has Developer options enabled and USB debugging ON: Instructions on HOW TO enable ADB is also captured in user guide.

1. Plug the 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 if you can 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. You may also get a pop up on your PC (Win 7) that you will be connected as a Portable MediaPlayer... this can be ignored.

❖ Download Image

- a. **CFE_ATLAS_P07_NG_01-01.49.zip** listed above in content section
 - b. Reset files (Optional)
5. Entering 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 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. 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.
 - 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.

- b. Repeat above steps for all mandatory packages
9. *“Reboot system now”* is highlighted. Press the Power Key to Reboot.
10. Device reboots and you see Zebra on top and POWERED BY android at the bottom and after about 1 minute will transition to the TC70x/TC75x Touch Computer splash screen with 5 dancing white dots at bottom... it will stay at this screen for a little over another minute (*could be another 7+ minutes if installing GMS*) and then you are at the Factory *“Welcome”* screen.
11. If you installed a GMS BSP, you will need to complete the process by setting up Wi-Fi and E-mail accounts and such. If on AOSP (non-GMS), there is no process to follow.
12. At the Home Screen, we need to verify that the BSP upgrade took place and set the Date & Time.
 - a. Go to *“Settings”* and scroll down to *“About phone”* and look at the *“Build number”*. It should start with *“01-01-49-NG-00-A-U07-STD”*. Now you are on the correct BSP.
 - b. Setting the Date and Time. If you associate to a WLAN AP, do so now, as it should automatically set the time and date... the only thing left is to set the time zone. Go to *“Settings”* and scroll to and select *“Date & time”*. Scroll down to and select *“Select time zone”*, and scroll down to and select the appropriate time zone and you are done.
13. To Check the Android Patch Level after installing the CFE package in the device,
 - a. Settings->About Phone->SW Components: Device Update Version: **7**
 - b. ADB Shell method: Execute following command from PC's command prompt:
\$ adb shell getprop ro.device.patch.version
\$ 7
14. Now you are all set to use your **TC70x/TC75x**

Using External SD card

1. Plug the 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. Download **“CFE_ATLAS_P07_NG_01-01.49.zip”** file and Reset Files (Optional) and drag & drop the files on External SD card

4. Entering Recovery Mode
 - a. Reset and hold PTT key
 - b. When Zebra Technologies logo appears on the screen, release the PTT Key
5. Your TC70x/TC75x will reboot and put you on the Android Recovery screen.
6. Applying update via External SD card
 - a. Use the Volume + and – to highlight select option to “Apply update from SD card” and press the Power Key to select it.
 - b. Use the Volume + and – to highlight package to be installed (**CFE_ATLAS_P07_NG_01-01.49.zip**) and press the Power Key to select it.
 - c. Repeat above steps for all mandatory packages
7. “Reboot system now” is highlighted. Press the Power Key to Reboot.
8. Device reboots and you see Zebra on top and POWERED BY android at the bottom and after about 1 minute will transition to the TC70x/TC75x Touch Computer splash screen with 5 dancing white dots at bottom... it will stay at this screen for a little over another minute (*could be another 7+ minutes if installing GMS*) and then you are at the Factory “Welcome” screen.
9. If you installed a GMS BSP, you will need to complete the process by setting up Wi-Fi and E-mail accounts and such. If on AOSP (non-GMS), there is no process to follow.
10. At the Home Screen, we need to verify that the BSP upgrade took place and set the Date & Time.
 - a. Go to “Settings” and scroll down to “About phone” and look at the “Build number”. It should start with “01-01-49-NG-00-A-U07-STD”. Now you are on the correct BSP.
 - b. Setting the Date and Time. If you associate to a WLAN AP, do so now, as it should automatically set the time and date... the only thing left is to set the time zone. Go to “Settings” and scroll to and select “Date & time”. Scroll down to and select “Select time zone”, and scroll down to and select the appropriate time zone and you are done.
11. To Check the Android Patch Level after installing the CFE package in the device,
 - a. Settings->About Phone->SW Components: Device Update Version: **7**
 - b. ADB Shell method: Execute following command from PC's command prompt:
\$ adb shell getprop ro.device.patch.version
\$ 7

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

Downloadable Software Included in this Release

Package Name	Description
CFE_ATLAS_P07_NG_01-01.49.zip	OTA incremental LifeGuard CFE v7 update software for GMS build compatible for TC70x & TC75x products.

Last Revised: July 13, 2018