Release Notes – Zebra TC51, TC51-HC, TC70x, TC56 and TC75x Android N -LifeGuard Update 04 for NGMS

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Introduction

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

The TC51/TC51-HC/TC70x/TC56/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 date 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 TC51, TC56, TC70x and TC75x Non-GMS products.

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

1. CFE v4 Updates:

CFE-TC5X_TC7Xx-01-01-49-NN-00-A-04.zip (NGMS)

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:
 - o Datawedge: 6.7.34
 - StageNow: 2.10.1.1386
 - EMDK: 6.8.20.1120
 - o 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 USB debugging failed to get enabled via StageNow.
- 7. SPR33639 Resolved an issue wherein device stops emitting scan beam after waking up from suspend state.
- SPR33799 Resolved an issue wherein DataWedge was sending char 10 instead of char 13.

2. CFE v3 Updates:

- CFE-TC5X_TC7Xx-01-01-49-NN-00-A-03.zip (NGMS)
- 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	
TC510K-2PAZU2P-US	Android M &N	
TC510K-2PAZU2P-A6	Android M &N	
TC510K-2PAZU4P-US	Android M &N	
TC510K-2PAZU4P-A6	Android M &N	
TC510K-2HDZU2P-US	Android M &N	
TC510K-2HDZU4P-US	Android M &N	
TC510K-2HDZU2P-A6	Android M &N	
TC56DJ-2PAZU2P-A6	Android M &N	
TC56DJ-2PAZU4P-A6	Android M &N	
TC56DJ-2PAZU2P-IA	Android M &N	
TC56DJ-2PAZU4P-IA	Android M &N	

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	TC700K-02B22B0-US	Android M &N
TC700K-02B22B0-IA Android M &N	TC700K-02B24B0-US	Android M &N
	TC700K-02B22B0-IA	Android M &N

Supported FIPS SKUs

Device	Operating System	
TC510K-2PAZU4P-FT	Android N	
TC510K-1PAZU4P-FT	Android N	
TC510K-1HDZU4P-FT	Android N	
TC510K-1PAZU4P-FT	Android N	
TC56CJ-1PAZU4P-FT	Android N	
TC56CJ-2PAZU4P-FT	Android N	
TC700K-0MB24B0-FT	Android N	
TC700K-02B24B0-FT	Android N	
TC75EK-2MB24AB-FT	Android N	
TC75EK-22B24AB-FT	Android N	

Component Contents

Component / Description	Version
Product Build Number	01-01-49-NN-00-A
Android Version	7.1.2
Linux Kernel	3.10.84
Android SDK Level	25
Platform	QC8956
Bluetooth Stack	1.1
Flash Size	16GB/32GB
RAM Size	2GB/4GB
Scanning	19.0.31.0
SimulScan	2.9.3 SimulScanEngine 1.15.9
Datawedge	6.7.34
EMDK	6.8.20.1120
MXMF / OSX	MXMF-7.2.0.6 / OSX-QCT.71.7.5.2
File Browser	1.19.1.2
Stage Now	2.10.1.1386
Diagnostic Tool	1.15.0.11
Security Patch Level	March 5,2018

Installation Requirements

Install baseline 01-01-49-NN-00-A (NGMS) build.

Installation Instructions

Using ADB Sideload

The installation instructions assume you have ADB installed on your PC (the adb drivers and such) and your TC51/TC51-HCTC56/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 TC51/TC51-HC/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 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-TC5X_TC7Xx-01-01-49-NN-00-A-04.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 TC51/TC51-HC/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. 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 TC51/TC51-HC/TC56/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 Email 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-NN-00-A". 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: 4
 - ADB Shell method: Execute following command from PC's command prompt:
 \$ adb shell getprop ro.device.patch.version
 - \$**4**
- 14. Now you are all set to use your TC51/TC51-HC/TC56/TC70x/TC75x

Using External SD card

- 1. Plug the TC51/TC51-HC/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".
- Download "CFE-TC5X_TC7Xx-01-01-49-NN-00-A-04.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 TC51/TC51-HC/TC56/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-TC5X_TC7Xx-01-01-49-NN-00-A-04.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 TC51/TC51-HC/TC56/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 Email 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-NN-00-A". 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: 4
 - b. ADB Shell method: Execute following command from PC's command prompt:
 \$ adb shell getprop ro.device.patch.version
 \$ 4

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

Downloadable Software Included in this Release

Package Name	Description
CFE-TC5X_TC7Xx-01-01-49-NN-00-A-04.zip	OTA incremental CFE v4 update software for Non- GMS build compatible for TC51, TC56, TC70x & TC75x products.

Last Revised: March 13, 2018