

Release Notes – Zebra TC51 Android M Update005 based on 01-19-01.4-MN (AOSP)

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Introduction

Today's Enterprise Mobility IT professionals and workers want a device that is every bit as contemporary and easy to use as the personal smartphone they use every day. But they also need a device that is durable, secure and built with all the mission-critical Enterprise features needed to enable them to achieve peak productivity every day – day after day. Now you can have it all — beauty, brawn and brains. The TC51/TC56 Touch Computer from Zebra — it's everything your workers want, with everything your business needs.

No more compromising device design for enterprise functionality — or enterprise functionality for device design. The TC56 offers 4G LTE and 3G coverage for N. America including AT&T, Verizon, and 4G and 3G coverage for the rest of the world. Built for the new business world, the TC51 & TC56 offer an industrial design that looks and feels like the most popular consumer-style smartphones and fully meets Enterprise management and worker expectations -- durability, WWAN and WiFi performance, power, security, life cycle, manageability and more.

Description

Zebra TC51 Update 005 based on Android M GA 01-19-01.4-MN (AOSP)

This Patch Addresses below critical changes.

Contents

File Name	Description
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Update005_19_01_4_5_AOSP.zip	Update 005 based on Android M GA 01-19-01.4-MN
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Component Version Numbers

Component / Description	Version
Product Build Number	X1-19-01.4-MN-00-UPDATE005
Android Version	6.0.1
Linux Kernel	3.10.84
x-loader	NA
u-boot	NA
Android SDK Level	23
Platform (TI/MPA/ etc)	QC 8956
Bluetooth Stack	NA
Partition Table	NA
Flash Size	16GB
RAM Size	2GB
Audio (Microphone and Speaker)	0.31.0.0
Battery Management	1.3.8
Bluetooth Pairing Utility	3.7.1
RxLogger	4.60.0.0
EHS	2.5.0.9
GMS	R12
NFC	4.3.0_M
PTT	3.1.32
Scanner	18.0.5.0
Touch Panel	1.8-Stylus-2-0, 1.8-Golve-2-0 (TC51/56) 1.9-Stylus-1-0, 2.0-Glove-1-0 (TC75X/TC70X)
WLAN	FUSION_BA_2_02.0.0.010_M
ActiveEdge	2.5.0
AnalyticsMgr	1.0.2.1768
AppGallery	3.0.1.4
Airwatch / Rapid Deployment	1.00.03
DataWedge	6.3.41
EMDK	6.4.9.709
MX	6.3.0.8
OSX	QCT.60.6.5.1

Simulscan	SimulScanDemo: 2.9 SimulScanRes : 1.14.9
SMARTMU	2.1.1
SOTI / Mobi Control	13.3.0 Build 1059
StageNow	2.7.1.1088
Data Analytics Engine	1.0.2.1859
Elemesz-B2M	1.0.0.347
Enterprise Keyboard	1.4.0.3
Zebra Device Diagnostic Tool	1.5
Zebra Volume Control (ZVC)	2.0.0.1

Device Compatibility

This software release has been approved for use with the following Zebra devices.

Device	Operating System
TC510K-2PAZU2P-US	Android M
TC510K-2PAZU2P-A6	Android M
TC510K-2PAZU4P-US	Android M
TC510K-2PAZU4P-A6	Android M
TC510K-2HDZU2P-US	Android M
TC510K-2HDZU4P-US	Android M
TC510K-2HDZU2P-A6	Android M
TC510K-2HDZU4P-A6	Android M

Installation Requirements

Install baseline 01-19-01.4 build

Installation Instructions

Using ADB Sideload

Assumptions:

1. ADB installed on PC (the adb drivers and such)
2. TC51 has Developer options enabled
3. USB debugging ON

Note: For Enabling ADB please see [user guide](#)

Procedure:

1. Plug the TC51 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. You may also get a pop up on your PC (Win 7) that you will be connected as a Portable Media Player... this can be ignored.
- ❖ Download Image
 - a. applicable patches listed above in content section
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 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, type “*adb sideload*” and add a space and then drag and drop the update file the downloaded zip file 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 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 "01-19-01.4-MN-UPDATE005". 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. Now you are all set to use your TC51.

Using External SD card

1. Plug the TC51 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 Images files listed in content section, any applicable patches listed above in content section and Reset Files (Optional) and drag & drop the files on External SD card
4. Entering into Recovery Mode
 - a. Reset and hold PTT key
 - b. When Zebra Technologies logo appears on the screen Release the PTT Key
5. Your TC51 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 (downloaded Zip file) 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 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 “01-19-01.4-MN-UPDATE005”. 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. Now you are all set to use your TC51.

Change Notes

1. Datawedge version update
2. [BSPA-36759] Acoustic tuning update for TC51HC
3. [BSPA-35546] [Atlas M] Add support for mic seal ironman SKU
4. BSPA-35986: keyboard remap via stagenow is not working for PTT
5. BSPA-35597: DHCP Client failing due to Option 61 Client ID
6. BSPA-34268: Update RD Client V 1.01.04
7. BSPA-34494: After Battery Swap PP Battery Shows PP+ Information in the ...

8. BSPA-32643: Intent Issue on the uMobility SIP client and MM with Contacts App
9. SPR-31494: Scanning does not work when chrome browser is open