Release Notes for Zebra Android Nougat 02-07-08.00-NN-U00-STD Release (Non-GMS)

Highlights

The details of the Android GMS Nougat release 02-07-08.00-NN-U00-STD that covers family of products including TC51, TC56, TC70x, TC75x, VC80x, MC33x, MC3300r. Please see, Device Compatibility under Addendum Section for more details.

Software Packages

Package Name	Description
FPU_ATLAS_ 02-07-08.00-NN-U00-STD.zip	Full Package Update

Security Updates

This build is Compliant up to Android Security Bulletin of October 05 2019.

Cellular carrier supported

AT&T, Verizon Wireless, Sprint, Telstra and ROW (Rest of World)

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	02-07-08.00-NN-U00-STD
Android Version	7.1.2
Security Patch level	October 05, 2019
Linux Kernel	3.10.84
Component Versions	Please see Component Version under Addendum section

New Features

- Added support for Tianma display panel (tm046jdhg06) for TC70x/TC75x devices including downgrade protection. This image is backward compatible with existing Innolux display.
- Added RS5100 Firefly scanner support.
- Added CM36686 sensor support including downgrade protection.
- Added support for Common Transport Layer (CTL).

Resolved Issues

- SPR38642 – Resolved an issue wherein the device reboots when scanning QR Code.
- SPR38575 - Resolved an issue wherein enabling US Planet decoder with parameters as Report Check Digit was not working.
- SPR38335 - Resolved an intermittent issue wherein incorrect barcode data was being decoded.
- SPR37841 - Resolved an issue wherein device fails to receive the buffered packets for a short time.
- SPR37982 - Updated Bluetooth firmware
- SPR37434 - Resolved an issue wherein changing the WiFi configuration via StageNow resulted in high CPU utilization.
- SPR37481 - Resolved an intermittent issue wherein CODE128 barcode was incorrectly being decoded.
- SPR38266 - Resolved an issue wherein intermittently VoIP call volume and quality was distorted.
- SPR38148 - Resolved an issue wherein data roaming was not getting enabled via StageNow.
- SPR38418 - Resolved an issue wherein pressing and holding right scan trigger while in SIMULSCAN resulted in continuous scanning.
- SPR38483 - Resolved an issue wherein data transfer with certain Bluetooth printers are delayed.
- SPR38426 - Resolved an issue wherein setting proxy via stagenow used to fail if the bypass proxy field is empty.
- SPR37353 - Resolved an issue wherein Emoji button on EKB was not working.
- SPR38694 - Resolved an issue wherein user couldn’t open Settings App while in EHS Admin mode on LG20.
- SPR38730 - Resolved an issue wherein Rxlogger required a reboot to apply config changes.
- SPR38704 - Resolved an issue wherein battery health was being reported as “Unknown” on LG20.
- SPR39212 - Resolved an issue where Device was unable to Re-Pair with Zq520.
- SPR38737 - Restricted the accessing of Imager as a Camera ID since "Imager As Camera" is not supported".
- SPR39435 - Updated the firmware for fixing kr00k vulnerability issue seen with Broadcom wifi chipsets.

Known Issues:

1. Downgrading to an older BSP requires an Enterprise or Factory Reset.
2. “Zebra Data Service has stopped" and “Oeminfo has stopped” pop-up has been observed while upgrading from latest Nougat BSP (02-07-08.00-NG-U00-STD) to Oreo BSP (02-13-15).

Installation Requirements

- ADB installed on the PC (including adb drivers)
- USB debugging turned ON (from Developer options)
- Download both Full Package and Reset Packages (Optional)

Installation Instructions

FPU software update procedure

The installation instructions assume you have ADB installed on user PC (the adb drivers etc..) and user device has developer options enabled and USB debugging ON. Instructions on HOW TO enable ADB is also captured in the user guide.

1. Connect the device to the PC using the USB data cable or through the cradle.
2. User 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, user will need to get the PC set up with the proper drivers or install an External SD Card or USB stick.
4. User may also get a pop up on your PC (Win 7) that user will be connected as a Portable Media Player… this can be ignored.

❖ **Download Image**

- FPU_ATLAS_02-07-08.00-NN-U00-STD.zip listed above in content section

5. Entering Recovery Mode
   - Choice 1: In Command Prompt, type *“adb reboot recovery”* and click enter.
   - Choice 2:
     - TC51, TC56, TC70x and TC75x: Reset and hold PTT key
     - VC80x: Reboot the VC80x using the power button menu and when the screen goes black, hold the Power and + buttons
     - MC33x/MC3300r: Reboot the device while holding the Pistol Grip Trigger **(GUN Device)** or the Right Scan Trigger **(BRICK Device)**
     - When Zebra Technologies logo appears on the screen release the PTT Key/Buttons/Trigger

6. User device will reboot and put user on the Android Recovery screen.
7. If applying update via sideload Method
   - Use the Volume + and – or Up and Down button to highlight, “Apply update from ADB” and press the Power key or Enter key to select it for applying OS upgrade package
8. if applying update via External SD card or USB stick
   - Use the Volume + and – or Up and Down button to highlight “Apply update from SD card” and press the Power Key or Enter key to select it
   - Use the Volume + and – or Up and Down button to highlight package FPU_ATLAS_02-07-08.00-NN-U00-STD.zip and press the Power or Enter key to select it.
   - Go to Step 10 once above steps are completed
9. With Command Prompt open in the Host machine, type *“adb sideload”* command and add a space and then drag and drop the FPU_ATLAS_02-07-08.00-NN-U00-STD.zip file on to it and click enter.
   - User PC screen will show files being installed and a little blue horizontal progress bar on user device will show status… and after about 6~ minutes (could be 10+ minutes if installing GMS) it should be done and user 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, user 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 start with **“02-07-08.00-NN-U00-STD”**. Now you are on the correct BSP.
12. Now user is all set to use Zebra Device.

NOTE:

- **TC70x/TC75x Tianma display devices, TC70x/TC75x CM36686 proximity sensor devices are not allowed to downgrade to any of the older BSPs.**

- To identify the display type on TC70x/TC75x devices user can check the ‘ro.config.device.display’ property using adb getprop command.
  - For TC70x/TC75x Innolux device [ro.config.device.display] = 0
  - For TC70x/TC75x Tianma device [ro.config.device.display] = 512

- To identify the proximity sensor type on TC70x/TC75x devices user can check the ‘ro.config.device.proximity’ using adb getprop command.
  - For TC70x/TC75x TMG39933 proximity sensor [ro.config.device.proximity] = [32]
  - For TC70x/TC75x CM36686 proximity sensor [ro.config.device.proximity] = [64]

Addendum

Device Compatibility

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

TC51	
Device Part Number	**Operating System**
TC510K-1PAZU2P-US	Android N
TC510K-1PAZU2P-A6	Android N
TC510K-1PAZU4P-US	Android N
TC510K-1PAZU4P-A6	Android N
TC510K-1HDZU2P-US	Android N
TC510K-1HDZU4P-US	Android N
TC510K-1HDZU2P-A6	Android N
TC510K-1HDZU4P-A6	Android N
TC510K-1PAZU2P-IA	Android N

TC56	
Device Part Number	**Operating System**
TC56DJ-1PAZU2P-A6	Android N
TC56DJ-1PAZU4P-A6	Android N
TC56CJ-1PAZU2P-A6	Android N
TC56CJ-1PAZU4P-A6	Android N
TC56DJ-1PAZU2P-IA	Android N
TC56DJ-1PAZU4P-IA	Android N
TC56DJ-1PAZU4P-ID	Android N
TC56DJ-1PAZU2P-ID	Android N
TC56DJ-1PAZU2P-TN	Android N
TC56DJ-1PAZU4P-TN	Android N
TC56DJ-1PAZU4P-BR	Android N
TC56DJ-1PAZU2P-BR	Android N
TC56CJ-1PAZU2P-US	Android N
TC56CJ-1PAZU4P-US	Android N
FIPS SKUS (TC51 & TC56)	
Device Part Number	**Operating System**

TC510K-1PAZU4P-FT	Android N
TC510K-1HDZU4P-FT	Android N
TC56CJ-1PAZU4P-FT	Android N

TC75x	
Device Part Number	**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

TC70x	
Device Part Number	**Operating System**
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

FIPS SKUS (TC70x & TC75x)

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

VC80x USA		
	Device Part Number	**Operating System**
Warehouse AOSP	VC80X-10SSRAAABA-U	Android N
Freezer AOSP	VC80X-10FSRAAABA-U	Android N
Outdoor AOSP	VC80X-10SORAAABA-U	Android N
VC80x Rest of the World		
Warehouse AOSP	VC80X-10SSRAAABA-I	Android N
Freezer AOSP	VC80X-10FSRAAABA-I	Android N
Outdoor AOSP	VC80X-10SORAAABA-I	Android N

MC33	
Device Part Number	**Operating System**
MC330K-GE3HA3NA	Android N
MC330K-GE3HA3RW	Android N
MC330K-GE4HA3NA	Android N
MC330K-GE4HA3RW	Android N
MC330K-GE4HA4NA	Android N
MC330K-GE4HA4RW	Android N
MC330K-GI3HA3NA	Android N
MC330K-GI3HA3RW	Android N
MC330K-GI3HA4RW	Android N
MC330K-GI4HA3NA	Android N
MC330K-GI4HA3RW	Android N
MC330K-GI4HA4NA	Android N
MC330K-GI4HA4RW	Android N
MC330K-GI4HG3NA	Android N
MC330K-GI4HG3RW	Android N
MC330K-GI4HG4NA	Android N
MC330K-GI4HG4RW	Android N

MC33	
Device Part number	**Operating System**
MC330M-RL4SG2RW	Android N
MC330M-SI2HA2RW	Android N
MC330M-SI30A2RW	Android N
MC330M-SI3HA2NA	Android N
MC330M-SI3HA2RW	Android N
MC330M-SI40A2NA	Android N
MC330M-SI4HA2NA	Android N
MC330M-SI4HA2RW	Android N
MC330M-SI4HG2NA	Android N
MC330M-SL2HA2RW	Android N
MC330M-SL2HG2RW	Android N
MC330M-SL3HA2NA	Android N
MC330M-SL3HA2RW	Android N
MC330M-SL4HA2NA	Android N
MC330M-SN3HA2RW	Android N
MC330M-SN4HA2NA	Android N
MC330M-RL2SG2US	Android N

MC330K-GL2HA3RW	Android N
MC330K-GL3HA3RW	Android N
MC330K-GL3HA4RW	Android N
MC330K-GL4HA3NA	Android N
MC330K-GL4HA3RW	Android N
MC330K-GL4HA4NA	Android N
MC330K-GL4HA4RW	Android N
MC330K-GL4HG3RW	Android N
MC330K-RC3HA4NA	Android N
MC330K-RC3HA4RW	Android N
MC330K-RC3HG4RW	Android N
MC330K-RC4HA4NA	Android N
MC330K-RC4HA4RW	Android N
MC330K-RL3HA3RW	Android N
MC330K-RL3HG3RW	Android N
MC330K-RL3SG3RW	Android N
MC330K-RL4HA3NA	Android N
MC330K-RL4HA3RW	Android N
MC330K-RL4HG3NA	Android N
MC330K-SB3HA4NA	Android N
MC330K-SB3HA4RW	Android N
MC330K-SB3HG4RW	Android N
MC330K-SB4HA4NA	Android N
MC330K-SB4HA4RW	Android N
MC330K-SB4HG4NA	Android N
MC330K-SE2HA3RW	Android N
MC330K-SE3HA3NA	Android N
MC330K-SE3HA3RW	Android N
MC330K-SE4HA3NA	Android N
MC330K-SE4HA3RW	Android N
MC330K-SG3HA4NA	Android N
MC330K-SG3HA4RW	Android N

MC330M-SL4HG2US	Android N
MC330M-SL3HG2US	Android N
MC330M-RL4SG2US	Android N
MC330M-RL3HG2US	Android N
MC330M-SN4HG2US	Android N
MC330M-SI3HG2US	Android N
MC330M-GL4HG2US	Android N
MC330M-GL3HG2US	Android N
MC330M-GL2HG2US	Android N
MC330M-GI3HG2US	Android N
MC330M-GI2HG2US	Android N
MC330K-SN4HG3US	Android N
MC330K-SI3HG3US	Android N
MC330K-GL4HG3US	Android N
MC330K-RC4HG4US	Android N
MC330K-RC3HG4US	Android N
MC330K-GL4HG4US	Android N
MC330K-GI3HG3US	Android N
MC330K-SP4HG4US	Android N
MC330K-SP3HG4US	Android N
MC330K-SB3HG4US	Android N
MC330K-SE4HG3US	Android N
MC330K-SE3HG3US	Android N
MC330K-SE2HG3US	Android N
MC330K-GE4HG3US	Android N
MC330K-GE3HG3US	Android N
MC330K-GE2HG3US	Android N
MC330K-SG4HG4US	Android N
MC330K-SG3HG4US	Android N
MC330K-SG2HG4US	Android N
MC330K-GE4HG4US	Android N
MC330K-GE2HG4US	Android N

MC330K-SG4HA4NA	Android N
MC330K-SI2HA3RW	Android N
MC330K-SI3HA3NA	Android N
MC330K-SI3HA3RW	Android N
MC330K-SI3HG3RW	Android N
MC330K-SI4HA3NA	Android N
MC330K-SI4HA3RW	Android N
MC330K-SI4HG3NA	Android N
MC330K-SL2HA3RW	Android N
MC330K-SL4HA3RW	Android N
MC330K-SN3HA3RW	Android N
MC330K-SN4HA3NA	Android N
MC330K-SN4HA3RW	Android N
MC330K-SP3HA4NA	Android N
MC330K-SP3HA4RW	Android N
MC330K-SP4HA4NA	Android N
MC330K-SP4HA4RW	Android N
MC330M-GI2HA2NA	Android N
MC330M-GI2HA2RW	Android N
MC330M-GI30A2RW	Android N
MC330M-GI3HA2IN	Android N
MC330M-GI3HA2NA	Android N
MC330M-GI3HA2RW	Android N
MC330M-GI3HG2RW	Android N
MC330M-GI40A2NA	Android N
MC330M-GI4HA2IN	Android N
MC330M-GI4HA2NA	Android N
MC330M-GI4HA2RW	Android N
MC330M-GI4HG2NA	Android N
MC330M-GL2HA2NA	Android N
MC330M-GL2HA2RW	Android N

MC330K-GI3HG3US01	Android N
MC330M-SN3HG2RW	Android N
MC330M-SL3HG2RW	Android N
MC330M-SI4HG2RW	Android N
MC330M-SI3HG2RW	Android N
MC330M-SI2HG2RW	Android N
MC330M-RL3HG2RW	Android N
MC330M-RL2SG2RW	Android N
MC330M-GL4HG2RW	Android N
MC330M-GL2HG2RW	Android N
MC330M-GI4HG2RW	Android N
MC330M-GI4HG2IN	Android N
MC330M-GI3HG2IN	Android N
MC330M-GI2HG2RW	Android N
MC330K-SP4HG4RW	Android N
MC330K-SP3HG4RW	Android N
MC330K-SN4HG3RW	Android N
MC330K-SN3HG3RW	Android N
MC330K-SL4HG3RW	Android N
MC330K-SL2HG3RW	Android N
MC330K-SI4HG3RW	Android N
MC330K-SI2HG3RW	Android N
MC330K-SG3HG4RW	Android N
MC330K-SG2HG4RW	Android N
MC330K-SE4HG3RW	Android N
MC330K-SE3HG3RW	Android N
MC330K-SE2HG3RW	Android N
MC330K-SB4HG4RW	Android N
MC330K-RL4HG3RW	Android N
MC330K-RC4HG4RW	Android N
MC330K-GL4HG3RW	Android N

MC330M-GL3HA2NA	Android N
MC330M-GL3HA2RW	Android N
MC330M-GL3HG2RW	Android N
MC330M-GL40A2NA	Android N
MC330M-GL40A2RW	Android N
MC330M-GL4HA2NA	Android N
MC330M-GL4HA2RW	Android N
MC330M-RL2SA2NA	Android N
MC330M-RL2SA2RW	Android N
MC330M-RL3HA2NA	Android N
MC330M-RL3HA2RW	Android N
MC330M-RL3SA2NA	Android N
MC330M-RL3SA2RW	Android N
MC330M-RL3SG2NA	Android N
MC330M-RL3SG2RW	Android N
MC330M-RL40A2NA	Android N
MC330M-RL4SA2NA	Android N
MC330M-RL4SA2RW	Android N

MC330K-GL3HG4RW	Android N
MC330K-GL3HG3RW	Android N
MC330K-GL2HG3RW	Android N
MC330K-GI3HG4RW	Android N
MC330K-GI3HG3RW	Android N
MC330K-GE4HG4RW	Android N
MC330K-GE4HG3RW	Android N
MC330K-GE3HG3RW	Android N
MC330K-GE2HG4RW	Android N
MC330K-GE2HG3RW	Android N
MC330K-GI3HG3RW01	Android N
MC330K-GE2HA3US	Android N
MC330K-GE2HA4US	Android N
MC330K-SE2HA3US	Android N
MC330K-SG2HA4US	Android N
MC330K-GE2HA3RW	Android N
MC330K-GE2HA4RW	Android N
MC330K-SG2HA4RW	Android N

MC3300R	
Device Part Number	**Operating System**
MC333R-GI2HG4US	Android N
MC339R-GE2HG4US	Android N
MC339R-GF2HG4US	Android N
MC333R-GI2HG4EU	Android N
MC339R-GE2HG4EU	Android N
MC339R-GF2HG4EU	Android N
MC333R-GI2HG4IN	Android N
MC339R-GF2HG4IN	Android N
MC333R-GI2HG4JP	Android N
MC333R-GI2HG4WR	Android N

MC3300R	
Device Part Number	**Operating System**
MC333R-GI3HG4US	Android N
MC339R-GE3HG4US	Android N
MC339R-GF3HG4US	Android N
MC333R-GI3HG4EU	Android N
MC339R-GE3HG4EU	Android N
MC339R-GF3HG4EU	Android N
MC333R-GI4HG4US	Android N
MC339R-GE4HG4US	Android N
MC339R-GF4HG4US	Android N
MC333R-GI4HG4EU	Android N

MC339R-GE2HG4WR	Android N
MC339R-GF2HG4WR	Android N
MC333R-GI4HG4WR	Android N
MC333R-GI4HG4JP	Android N
MC333R-GI4HG4IN	Android N

MC339R-GE4HG4EU	Android N
MC339R-GF4HG4EU	Android N
MC339R-GF4HG4WR	Android N
MC339R-GF4HG4IN	Android N
MC339R-GE4HG4WR	Android N

Component Versions

Component / Description	Version
Product Build Number	02-07-08.00-NN-U00-STD
Android Version	7.1.2
Linux Kernel	3.10.84
Android SDK Level	25
Platform	QC8956
Bluetooth Stack	1.1
Flash Size	32GB
RAM Size	4GB
Scanning Framework	19.63.37.0
SimulScan Demo App	3.0.2
SimulScan Engine	2.0.3
DataWedge	7.3.34
EMDK	7.3.23.2323
MXMF / OSX	MXMF: 9.0.12.0 / OSX: QCT.71.7.12.3

WiFi	FUSION_BA_2_10.0.4.031_N Radio: BA_2_10.0.4.026_N Application: BA_2_10.0.1.013_N Middleware: BA_2_10.0.1.017_N Firmware: 7.35.205.8 (r)
NFC	NFC_NCIHALx_AR0F.4.3.0_M_OpnSrc
PTT	3.1.35
Touch FW	TC70x/TC75x = 1.9-Stylus-1-0 & TC51/TC56 = 1.8-Stylus-2.0
RxLogger	5.4.13.0
Bluetooth Pairing Utility	3.11
Zebra Data Service	7.0.0.1005
Files	7.1.2
Stage Now	3.3.1.2001
Battery Swap	1.0
User Guide	1.0
Camera	2.0.002
MSRN	0.01
Zebra Volume Control (ZVC)	2.0.0.16
Battery Manger	1.3.8
ActiveEdge	2.5.16

WorryFree WiFi Analyzer	3.0.3
Device Central	2.1.0.17
Zebra Software License Manager	3.2.0
Audio	0.24.0.0
Acoustic Profiles	TC51: General: AN2.3 Cellular: N/A TC51HC: General: AN2.3 Cellular: N/A TC70x: General: BN1.2 Cellular: N/A TC56: General: AN3.6 Cellular: AN3.6 TC75x: General: BN2.3 Cellular: BN2.3 VC80x: General: EO1.1 Cellular: N/A MC33x: General: DO3.1 Cellular: N/A
OemInfo	9.0.0.64
Enterprise Keyboard (EKB)	2.1.1.3
Diagnostic Tool	1.17.0.9
RFID Module	MC3300R: PAAEES00-001-R00
RFID Radio	MC3300R: 2.0.29.0
Zebra RFID Mobile (Demo App)	MC3300R: 2.2.7.0
RFID Manager Application	MC3300R: 2.0.10.1
RFID System Service	MC3300R: 2.0.4.0
Webview	Version 73.0.3683.90

Fingerprint	Zebra/TC75x/TC75x:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/TC75x/TC75xDF:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/TC70x/TC70x:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/TC56/TC56:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/TC51/TC51:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/TC51HC/TC51HC:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/VC80x/VC80x:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/MC33/MC33:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys Zebra/MC33/MC33C:7.1.2/02-07-08.00-NN-U00-STD/446:user/release-keys

Important Links

- https://techdocs.zebra.com/datawedge/7-3/guide/about/
- https://techdocs.zebra.com/emdk-for-android/7-3/guide/about/
- https://techdocs.zebra.com/stagenow/3-3/about/
- https://techdocs.zebra.com/mx/
- https://techdocs.zebra.com/ddt/1-1/guide/about/
- https://techdocs.zebra.com/rxlogger/5-4/guide/about/

Revision History

REV	DESCRIPTION	DATE
1.0	Initial Release	May 13, 2020
2.0	Added Note section and minor corrections	May 22, 2020
3.0	Added known issues section and webview under component versions	May 26, 2020
4.0	Added Important Links section	May 27, 2020
5.0	Added SPR39435	June 19, 2020