



Release Notes for Zebra Android Oreo 02-32-04.00-ON-U01-STD Release

Highlights

The details of the Android NGMS Oreo release 02-32-04.00-ON-U01-STD that covers family of products including TC51, TC56, TC70x, TC75x, VC80x, MC33x and MC3300r. Please see, Device Compatibility under Addendum Section for more details.

02-32-04.00-ON-U01-STD baseline replaces the previous baseline 02-13-15.00-ON-U01-STD for new LG updates.

Software Packages

Package Name	Description
FPU_ATLAS_02-32-04.00-ON-U00-STD.zip	Full Package Update
CFE_ATLAS_02-32-04.00-ON-U01-STD.zip	Mandatory LG Package Update

Security Updates

This build is Compliant up to [Android Security Bulletin](#) of April 05 2020.

Cellular carrier supported

AT&T, Verizon Wireless, Sprint and Telstra.

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	02-32-04.00-ON-U01-STD
Android Version	8.1.0
Security Patch level	April 5, 2020
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 CM36686 proximity sensor support for TC70x/TC75x including downgrade protection.
- Added support for SE4770 scanner on MC33 devices including downgrade protection.
- Added Individual and Global Wake up source support.
- Added support for Common Transport Layer (CTL).

Resolved Issues

- SPR39435 - Updated the firmware for fixing Kr00k vulnerability issue seen with Broadcom Wi-Fi chipsets.
- SPR38282 - Resolved an issue wherein device failed to resolve Proxy function call.
- SPR38250 - Resolved an issue wherein device was sending Bluetooth data packets in an incorrect order while connected with printer resulting in random print failures.
- 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 bypass proxy was left empty.
- SPR38424 – Resolved an issue wherein Scanner firmware gets corrupted due to incorrect power up sequence and improper delay.
- SPR37976 – Resolved an issue wherein keys entered via hardware keypad were not getting repeated when entered in the browser address bar.
- SPR38845 – Resolved an issue wherein streaming of certain MP3 files used to fail.
- SPR38730 – Resolved an issue wherein Rxlogger required a reboot to apply config changes.
- SPR37268 – Resolved an issue wherein download manager is not working with Auto config proxy.
- SPR38257 - Resolved an issue wherein unwarranted APN changes on Verizon network are avoided.
- SPR38152 - Resolved an issue wherein Device was unable to maintain constant Friendly name for DX30.
- SPR39231 - Resolved an issue wherein enabling the SIM socket selection would fail using StageNow.
- SPR39186 - Resolved an issue wherein call to MX AccessMgr CSP used to fail intermittently resulting in MX being in an error state.
- SPR39445/SPR39517 - Resolved an issue wherein scanner intermittently failed to decode the barcode if HW picklist was enabled.
- SPR38751 - Resolved an issue wherein device was rebooting upon scanning a QR barcode.
- SPR38843 – Resolved an issue wherein intermittently scanner beam would not get fired when using DataWedge soft trigger API.

- SPR38895 - Resolved an issue wherein device was unable to maintain connection with Payment Devices (POS).
- SPR39212 - Resolved an issue wherein device was unable to Re-Pair with Zq520.
- SPR39392 - Resolved an issue wherein device loses wireless connectivity during roam in screen off state.
- SPR39323 - Resolved an issue wherein the scanner beep volume was not changing according to the value set by the user.
- SPR39076 - Resolved an issue wherein Applications were not able to receive Right and Back Scan trigger key events.
- SPR39461 - Added support to automatically agree to the location consent when the location modes are changed using WirelessMgr CSP.
- SPR37883 - Resolved an issue wherein proxy resolution fails when Java script functions are invoked.
- SPR38043 - Resolved a Webview related issue wherein Proxy PAC resolution is being affected.
- SPR38949 - Updated Webview to v78.0.3904.62.
- SPR37241 - Added support for NDEF tags for Oreo.
- SPR38869 - Add feature to disable Secure Startup (boot PIN) option in PIN wizard.
- SPR39057 – Resolved an issue wherein scanner does not activate in 123RFID Mobile Scan and Pair Screen.
- Resolved an issue wherein "Zebra Bluetooth stopped" crash is observed after performing NFC tap to pair RS5100 in Setup Wizard Screen.

Installation Requirements

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

Installation Instructions

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_02-32-04.00-ON-U00-STD.zip and CFE_ATLAS_02-32-04.00-ON-U01-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:
 - TC5x/TC7x: 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 buttons to highlight, “Apply update from ADB” and press the Power 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 buttons to highlight “Apply update from SD card” and press the Power or Enter Key to select it.
- Use the Volume + and – or Up and Down buttons to highlight package FPU_ATLAS_02-32-04.00-ON-U00-STD.zip and press the Power or Enter Key to select it.
- Go to Step 10 once above steps are completed.

9. With User Command Prompt open in the Host machine, type “*adb sideload*” command and add a space and then drag and drop the FPU_ATLAS_02-32-04.00-ON-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. Repeat steps 5 to 10 for CFE_ATLAS_02-32-04.00-ON-U01-STD.zip (Mandatory LG Package Update).

12. 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 “**02-32-04.00-ON-U01-STD release keys**”. Now you are on the correct BSP.

13. Now user is all set to use Zebra Device.

NOTE:

- **TC70x/TC75x Tianma display devices, TC70x/TC75x CM36686 proximity sensor devices and MC33 SE4770 Scanner 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] = 600
 - 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-2PAZU2P-US	Android O
TC510K-2PAZU2P-A6	Android O
TC510K-2PAZU4P-US	Android O
TC510K-2PAZU4P-A6	Android O
TC510K-2HDZU2P-US	Android O
TC510K-2HDZU2P-A6	Android O
TC510K-2PAZU2P-IA	Android O
TC510K-2PAZU4P-IA	Android O
TC510K-2HDZU4P-US	Android O
TC510K-2HDZU4P-A6	Android O

TC70x	
Device Part Number	Operating System
TC700K-02B22B0-A6	Android O
TC700K-02B24B0-A6	Android O
TC700K-02B22B0-US	Android O

TC700K-02B24B0-US	Android O
TC700K-02B22B0-IA	Android O

FIPS and TAA Compliant SKUS	
Device Part Number	Operating System
TC510K-2PAZU4P-FT	Android O
TC510K-2HDZU4P-FT	Android O
TC700K-02B24B0-FT	Android O

TC56	
Device Part Number	Operating System
TC56CJ-2PAZU2P-US	Android O
TC56CJ-2PAZU2P-A6	Android O
TC56DJ-2PAZU2P-A6	Android O
TC56DJ-2PAZU2P-BR	Android O
TC56DJ-2PAZU2P-IA	Android O
TC56DJ-2PAZU2P-CN	Android O
TC56DJ-2PAZU2P-TN	Android O
TC56DJ-2PAZU2P-ID	Android O
TC56CJ-2PAZU4P-US	Android O
TC56CJ-2PAZU4P-A6	Android O
TC56DJ-2PAZU4P-A6	Android O
TC56DJ-2PAZU4P-BR	Android O
TC56DJ-2PAZU4P-IA	Android O
TC56DJ-2PAZU4P-CN	Android O
TC56DJ-2PAZU4P-TN	Android O
TC56DJ-2PAZU4P-ID	Android O

TC75x	
Device Part Number	Operating System
TC75EK-22B22AB-US	Android O
TC75EK-22B24AB-US	Android O
TC75EK-22F22AB-US	Android O
TC75EK-22B22AF-US	Android O
TC75FK-22B22AD-A6	Android O
TC75FK-22B24AD-A6	Android O

TC75FK-22B22AD-BR	Android O
TC75FK-22B22AD-IA	Android O
TC75FK-22B22AD-ID	Android O
TC75FK-22B22AD-TN	Android O
TC75FK-22F22AD-A6	Android O
TC75FK-22B22AD-TW	Android O
TC75GK-22B22AD-A6	Android O
TC75GK-22B24AD-A6	Android O
TC75GK-22F22AD-A6	Android O

FIPS and TAA Compliant SKUS	
Device Part Number	Operating System
TC56CJ-2PAZU4P-FT	Android O

FIPS and TAA Compliant SKUS	
Device Part Number	Operating System
TC75EK-22B24AB-FT	Android O

VC80x USA		
	Device Part Number	Operating System
Warehouse	VC80X-10SSRAABBA-U	Android O
Freezer	VC80X-10FSRAABBA-U	Android O
Outdoor	VC80X-10SORAABBA-U	Android O
VC80x Rest of the World		
Warehouse	VC80X-10SSRAABBA-I	Android O
Freezer	VC80X-10FSRAABBA-I	Android O
Outdoor	VC80X-10SORAABBA-I	Android O
VC80x India		
Warehouse	VC80X-10SSRAABBA-IN	Android O
Outdoor	VC80X-10SORAABBA-IN	Android O

MC33x	
Device Part Number	Operating System
MC330M-RL3SA2RW	Android O
MC330M-RL2SA2RW	Android O
MC330M-RL40A2US	Android O

MC33x	
Device Part number	Operating System
MC330K-GI4HA4US	Android O
MC330K-GI4HA3US	Android O
MC330K-GI3HA3US	Android O

MC330M-RL3SA2US	Android O
MC330M-RL2SA2US	Android O
MC330M-SL3HA2RW	Android O
MC330M-SL2HA2RW	Android O
MC330M-RL4SA2RW	Android O
MC330M-GL4HA2RW	Android O
MC330M-GL40A2RW	Android O
MC330M-GL3HA2RW	Android O
MC330M-GL2HA2RW	Android O
MC330M-GI4HA2RW	Android O
MC330M-GI4HA2IN	Android O
MC330M-GI3HA2RW	Android O
MC330M-GI3HA2IN	Android O
MC330M-GI30A2RW	Android O
MC330M-GI2HA2RW	Android O
MC330M-RL3HA2RW	Android O
MC330M-SL4HA2US	Android O
MC330M-SL3HA2US	Android O
MC330M-RL4SA2US	Android O
MC330M-RL3HA2US	Android O
MC330M-SN3HA2RW	Android O
MC330M-SI4HA2RW	Android O
MC330M-SI3HA2RW	Android O
MC330M-SI30A2RW	Android O
MC330M-SI2HA2RW	Android O
MC330M-SN4HA2US	Android O
MC330M-SI4HA2US	Android O
MC330M-SI40A2US	Android O
MC330K-GL4HA4RW	Android O
MC330K-GL4HA3RW	Android O
MC330K-GL3HA4RW	Android O
MC330K-GL3HA3RW	Android O
MC330K-GL2HA3RW	Android O
MC330K-GI4HA4RW	Android O
MC330K-GI4HA3RW	Android O
MC330K-GI3HA4RW	Android O
MC330K-GI3HA3RW	Android O

MC330K-GE4HA4US	Android O
MC330K-GE4HA3US	Android O
MC330K-GE3HA3US	Android O
MC330K-GE2HA4US	Android O
MC330K-GE2HA3US	Android O
MC330K-SE2HA3RW	Android O
MC330K-SE4HA3US	Android O
MC330K-SE3HA3US	Android O
MC330K-SE2HA3US	Android O
MC330K-SG3HA4RW	Android O
MC330K-SG2HA4RW	Android O
MC330K-SG4HA4US	Android O
MC330K-SG3HA4US	Android O
MC330K-SG2HA4US	Android O
MC330K-GI3HA3IN	Android O
MC330K-SP2HA4RW	Android O
MC330M-SN3HA2US	Android O
MC330K-SN3HA3US	Android O
MC330M-SN2HA2US	Android O
MC330K-SL3HA3CN	Android O
MC330K-SI3HA3CN	Android O
MC330K-GL3HA3CN	Android O
MC330K-GI3HA3CN	Android O
MC330K-SB2HA4RW	Android O
MC330M-SIMHA2RW	Android O
MC330K-SP2HA3RW	Android O
MC330M-GJ4HA2RW	Android O
MC330M-GJ4HA2IN	Android O
MC330M-GJ3HA2RW	Android O
MC330M-GJ3HA2IN	Android O
MC330M-GJ30A2RW	Android O
MC330M-GJ2HA2RW	Android O
MC330M-SK3HA2RW	Android O
MC330M-SJ4HA2RW	Android O
MC330M-SJ3HA2RW	Android O
MC330M-SJ30A2RW	Android O
MC330M-SJ2HA2RW	Android O

MC330K-GE4HA4RW	Android O
MC330K-GE4HA3RW	Android O
MC330K-GE3HA3RW	Android O
MC330K-GE2HA4RW	Android O
MC330K-GE2HA3RW	Android O
MC330M-SI3HA2US	Android O
MC330K-SL4HA3RW	Android O
MC330K-SL2HA3RW	Android O
MC330K-RL4HA3RW	Android O
MC330K-RL3HA3RW	Android O
MC330K-RL4HA3US	Android O
MC330K-SN4HA3RW	Android O
MC330K-SN3HA3RW	Android O
MC330K-SI4HA3RW	Android O
MC330K-SI3HA3RW	Android O
MC330K-SI2HA3RW	Android O
MC330K-SN4HA3US	Android O
MC330K-SI4HA3US	Android O
MC330K-SI3HA3US	Android O
MC330K-RC4HA4RW	Android O
MC330K-RC3HA4RW	Android O
MC330K-RC4HA4US	Android O
MC330K-RC3HA4US	Android O
MC330M-GL4HA2US	Android O
MC330M-GL40A2US	Android O
MC330M-GL3HA2US	Android O
MC330M-GL2HA2US	Android O
MC330M-GI4HA2US	Android O
MC330M-GI40A2US	Android O
MC330M-GI3HA2US	Android O
MC330M-GI2HA2US	Android O
MC330K-SP4HA4RW	Android O
MC330K-SP3HA4RW	Android O
MC330K-SB4HA4RW	Android O
MC330K-SB3HA4RW	Android O
MC330K-SP4HA4US	Android O

MC330M-SK4HA2US	Android O
MC330M-SJ4HA2US	Android O
MC330M-SJ40A2US	Android O
MC330K-GJ4HA4RW	Android O
MC330K-GJ4HA3RW	Android O
MC330K-GJ3HA4RW	Android O
MC330K-GJ3HA3RW	Android O
MC330M-SJ3HA2US	Android O
MC330K-SK4HA3RW	Android O
MC330K-SK3HA3RW	Android O
MC330K-SJ4HA3RW	Android O
MC330K-SJ3HA3RW	Android O
MC330K-SJ2HA3RW	Android O
MC330K-SK4HA3US	Android O
MC330K-SJ4HA3US	Android O
MC330K-SJ3HA3US	Android O
MC330M-GJ4HA2US	Android O
MC330M-GJ40A2US	Android O
MC330M-GJ3HA2US	Android O
MC330M-GJ2HA2US	Android O
MC330K-SM4HA4RW	Android O
MC330K-SM3HA4RW	Android O
MC330K-SA4HA4RW	Android O
MC330K-SA3HA4RW	Android O
MC330K-SM4HA4US	Android O
MC330K-SM3HA4US	Android O
MC330K-SA4HA4US	Android O
MC330K-SA3HA4US	Android O
MC330K-GJ4HA4US	Android O
MC330K-GJ4HA3US	Android O
MC330K-GJ3HA3US	Android O
MC330K-GJ3HA3IN	Android O
MC330K-SM2HA4RW	Android O
MC330M-SK3HA2US	Android O
MC330K-SK3HA3US	Android O
MC330M-SK2HA2US	Android O

MC330K-SP3HA4US	Android O
MC330K-SB4HA4US	Android O
MC330K-SB3HA4US	Android O
MC330K-SE4HA3RW	Android O
MC330K-SE3HA3RW	Android O
MC330K-GL4HA4US	Android O
MC330K-GL4HA3US	Android O

MC330K-SJ3HA3CN	Android O
MC330K-GJ3HA3CN	Android O
MC330K-SA2HA4RW	Android O
MC330K-SP2HA3RW	Android O
MC330K-GI2HA3RW	Android O
MC330K-GJ2HA3RW	Android O

MC3300R	
Device Part Number	Operating System
MC333R-GI2HA4IL	Android O
MC333R-GI2HA4CN	Android O
MC333R-GI4HA4CN	Android O
MC339R-GF4HA4CN	Android O

MC3300R	
Device Part Number	Operating System
MC339R-GE2HA4CN	Android O
MC339R-GF2HA4CN	Android O
MC339R-GE4HA4CN	Android O

Component Versions

For detailed release notes, please refer techdocs.zebra.com, developer.zebra.com

Component / Description	Version
Product Build Number	02-32-04.00-ON-U01-STD
Android Version	8.1.0
Linux Kernel	3.10.84
Android SDK Level	27
Platform	QC8956
Bluetooth Stack	4.1
Flash Size	16/32GB
RAM Size	2/4GB
Scanning Framework	23.1.8.0
SimulScan	4.0.5
SimulScanEngine	3.0.1
DataWedge	8.0.38
EMDK	8.0.10.2621
MXMF / OSX	MXMF: 10.0.2.6 / OSX: QCT.81.8.12.4
WiFi	FUSION_BA_2_11.0.1.028_O Radio: BA_2_11.0.1.020_O Application: BA_2_11.0.0.012_O Middleware: BA_2_11.0.0.016_O Firmware: 7.35.205.8_20200302
NFC	NFC_NCIHALx_AR003C.8.3.0_O_OpnSrc

PTT	3.1.39
Touch FW	TC70x/TC75x: 1.9-Stylus-1-0 TC51/TC56: 1.8-Stylus-2.0
RxLogger	5.4.12.0
Bluetooth Pairing Utility	3.16
Zebra Data Service	7.0.0.1005
Files	8.1.0
Stage Now	4.2.5.5
Battery Swap	1.0
User Guide	1.0
Camera	2.0.002
MSRN	2.01
Zebra Volume Control (ZVC)	2.1.0.14
Battery Manger	1.4.2
ActiveEdge	2.5.16
WorryFree WiFi Analyzer	WFW_BA_2_5.0.0.005_O
Device Central	2.1.0.17
Zebra Software License Manager	4.0.2
Audio	0.8.0.0
Acoustic Profiles	TC51: General: AO1.1 Cellular: N/A TC51HC: General: AO2.2 Cellular: N/A TC70x: General: BO1.2 Cellular: N/A TC56: General: AO3.1 Cellular: AO3.2 TC75x: General: BO2.2 Cellular: BO2.1 VC80x: General: EO1.1 Cellular: N/A MC33x: General: DO3.1 Cellular: N/A
OemInfo	9.0.0.64
Enterprise Keyboard (EKB)	2.2.2.3
Webview	78.0.3904.62
Diagnostic Tool	1.20.0.2
RFID Module	MC3300R: PAAEES00-001-R03
RFID Radio	MC3300R: 2.0.30.0
Zebra RFID Mobile (Demo App)	MC3300R: 2.2.7.1
RFID Manager Application	MC3300R: 2.0.10.1
RFID System Service	MC3300R: 2.0.4.2
Fingerprint	Zebra/TC70x/TC70x:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys Zebra/TC51/TC51:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys Zebra/TC51/TC51HC:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys Zebra/TC75x/TC75x:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys

	Zebra/TC56/TC56:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys
	Zebra/VC80x/VC80x:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys
	Zebra/MC33/MC33:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys
	Zebra/MC33/MC33C:8.1.0/02-32-04.00-ON-U01-STD/299:user/release-keys
Security Patch Level	April 05 2020

Important Links

- <https://techdocs.zebra.com/datawedge/8-0/guide/about/>
- <https://techdocs.zebra.com/emdk-for-android/8-0/guide/about/>
- <https://techdocs.zebra.com/stagenow/4-2/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 28, 2020