# Release Notes for Zebra Android Oreo 02-52-21.00-OG-U03-STD Release (GMS)

## Highlights

The details of the Android GMS Oreo LifeGuard release 02-52-21.00-OG-U03-STD that covers the family of products including TC51, TC56, TC70x, TC75x, MC3300, MC3300R and VC80x. Please see, Device Compatibility under Addendum Section for more details.

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

## Software Packages

| Package Name | Description |
|---|---|
| ATLAS_DELTA_UPDATE_02-52-21.00-OG-U03-STD.zip | LG Package Update |

## Security Updates

This build is Compliant with to Android Security Bulletin of October 05, 2021(Critical Patch Level: April 01, 2022).

## Cellular carrier supported

AT&T, Verizon Wireless, Sprint, and Telstra.

## Version Information

The below table contains important information on versions

| Description | Version |
|---|---|
| Product Build Number | 02-52-21.00-OG-U03-STD |
| Android Version | 8.1.0 |
| Security Patch level | October 05, 2021 (Critical Patch Level: April 01, 2022) |
| Linux Kernel | 3.10.84 |
| Component Versions | Please see Component Version under Addendum section |

**LG U03 Update:**

❖ ATLAS_DELTA_UPDATE_02-52-21.00-OG-U03-STD.zip (GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: April 01, 2022).

## Resolved Issues

– SPR45003 – Resolved an issue wherein Bluetooth was crashing when more than 100 devices are paired.

– SPR 46125 - Resolved an issue wherein QR code enrollment was not working on U23 onwards.

– SPR45769 - Resolved an issue introduced in LG23 where a WiFi profile using certificate validation would fail to connect after an Enterprise or Factory Reset.

## New Features

- Added support for BMI270/ICM42607 Gyroscope/accelerometer Sensors [VC80X supports BMI270 Gyroscope/accelerometer only].

## Usage notes

BMI270/ICM42607 Gyroscope/accelerometer sensor devices require 02-52-21.00-OG-U03-STD or higher to ensure full G-sensor functionality.

The installed Gyroscope/Accelerometer sensors can be identified either in SETTINGS or via ADB command:

## SETTINGS

a. Devices with BMI270/ ICM42607 Gyroscope/accelerometer sensor will list sensor type as BMI270/ ICM42607 on "Settings-->About phone-->SW components-->Gyroscope" or "Settings-->About phone-->SW components -- >Accelerometer".

## ADB

Check the ro.config.device.gyro & ro.config.device.accelerometer property using **getprop** command from adb.

a. Devices with **BMI270** Gyroscope/accelerometer sensor will have ro.config.device.gyro = 32  ro.config.device.accelerometer=120

b. Devices with **ICM42607** Gyroscope/accelerometer sensor will have ro.config.device.gyro = 260  ro.config.device.accelerometer=2052

# Installation Requirements

- ADB installed on the PC (including adb drivers)
- USB debugging turned ON (from Developer options)

- Download Full Package

# Installation Instructions

## Software update procedure

The installation instructions assume user has ADB installed on their 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. Please check following link for more information on installation and setup instructions.

- Installation and setup instructions

# Addendum

## Device Compatibility

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

TC51 Home Page

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

TC70x Home Page

| TC70x | |
|---|---|
| **Device Part Number** | **Operating System** |
| TC700K-0MB22B0-A6 | Android O |
| TC700K-0MB24B0-A6 | Android O |
| TC700K-0MB22B0-US | Android O |

| TC700K-0MB24B0-US | Android O |
|---|---|
| TC700K-0MB22B0-IA | Android O |

| FIPS and TAA Compliant SKUS | |
|---|---|
| Device Part Number | Operating System |
| TC510K-1PAZU4P-FT | Android O |
| TC510K-1HDZU2P-FT | Android O |
| TC510K-1HDZU4P-FT | Android O |
| TC700K-0MB24B0-FT | Android O |

## TC56 Home Page

| TC56 | |
|---|---|
| Device Part Number | Operating System |
| TC56CJ-1PAZU2P-US | Android O |
| TC56CJ-1PAZU2P-A6 | Android O |
| TC56DJ-1PAZU2P-A6 | Android O |
| TC56DJ-1PAZU2P-BR | Android O |
| TC56DJ-1PAZU2P-IA | Android O |
| TC56DJ-1PAZU2P-CN | Android O |
| TC56DJ-1PAZU2P-TN | Android O |
| TC56DJ-1PAZU2P-ID | Android O |
| TC56CJ-1PAZU4P-US | Android O |
| TC56CJ-1PAZU4P-A6 | Android O |
| TC56DJ-1PAZU4P-A6 | Android O |
| TC56DJ-1PAZU4P-BR | Android O |
| TC56DJ-1PAZU4P-IA | Android O |
| TC56DJ-1PAZU4P-TN | Android O |
| TC56DJ-1PAZU4P-CN | Android O |
| TC56DJ-1PAZU4P-ID | Android O |

## TC75x Home Page

| TC75x | |
|---|---|
| Device Part Number | Operating System |
| TC75EK-2MB22AB-US | Android O |
| TC75EK-2MB24AB-US | Android O |
| TC75EK-2MF22AB-US | Android O |

| | |
|---|---|
| TC75EK-2MB22AF-US | Android O |
| TC75FK-2MB22AD-A6 | Android O |
| TC75FK-2MB24AD-A6 | Android O |
| TC75FK-2MB22AD-BR | Android O |
| TC75FK-2MB22AD-IA | Android O |
| TC75FK-2MB22AD-ID | Android O |
| TC75FK-2MB22AD-TN | Android O |
| TC75FK-2MF22AD-A6 | Android O |
| TC75FK-2MB22AD-TW | Android O |
| TC75GK-2MB22AD-A6 | Android O |
| TC75GK-2MB24AD-A6 | Android O |
| TC75GK-2MF22AD-A6 | Android O |

| FIPS and TAA Compliant SKUS | |
|---|---|
| **Device Part Number** | **Operating System** |
| TC56CJ-1PAZU4P-FT | Android O |
| **FIPS and TAA Compliant SKUS** | |
| **Device Part Number** | **Operating System** |
| TC75EK-2MB24AB-FT | Android O |

## VC80x Home Page

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

## MC3300 Home Page

| MC3300 | |
|---|---|
| **Device Part Number** | **Operating System** |

| MC3300 | |
|---|---|
| **Device Part number** | **Operating System** |

| | | | |
|---|---|---|---|
| MC330M-RL4SG2RW | Android O | MC330K-SE3HG3RW | Android O |
| MC330M-RL2SG2RW | Android O | MC330K-SE2HG3RW | Android O |
| MC330M-RL3SG2US | Android O | MC330M-GL4HG2US | Android O |
| MC330M-RL2SG2US | Android O | MC330M-GL3HG2US | Android O |
| MC330M-SL2HG2RW | Android O | MC330M-GL2HG2US | Android O |
| MC330M-RL3SG2RW | Android O | MC330M-GI3HG2US | Android O |
| MC330M-GL3HG2RW | Android O | MC330M-GI2HG2US | Android O |
| MC330M-GI3HG2RW | Android O | MC330K-SE4HG3US | Android O |
| MC330M-SL3HG2RW | Android O | MC330K-SE3HG3US | Android O |
| MC330M-RL3HG2RW | Android O | MC330K-GL4HG3US | Android O |
| MC330M-SL4HG2US | Android O | MC330K-SE2HG3US | Android O |
| MC330M-SL3HG2US | Android O | MC330K-GL4HG4US | Android O |
| MC330M-RL4SG2US | Android O | MC330K-GI3HG3US | Android O |
| MC330M-RL3HG2US | Android O | MC330K-SG3HG4RW | Android O |
| MC330K-RL3SG3RW | Android O | MC330K-SG2HG4RW | Android O |
| MC330M-SN3HG2RW | Android O | MC330K-GE4HG3US | Android O |
| MC330M-SI4HG2RW | Android O | MC330K-GE3HG3US | Android O |
| MC330M-SI3HG2RW | Android O | MC330K-GE2HG3US | Android O |
| MC330M-SI2HG2RW | Android O | MC330K-SG4HG4US | Android O |
| MC330M-SI4HG2US | Android O | MC330K-SG3HG4US | Android O |
| MC330K-GL4HG3RW | Android O | MC330K-SG2HG4US | Android O |
| MC330K-GI4HG4RW | Android O | MC330K-GE4HG4US | Android O |
| MC330K-GI4HG3RW | Android O | MC330K-GE2HG4US | Android O |
| MC330M-SN4HG2US | Android O | MC330K-GI3HG3IN | Android O |
| MC330M-SI3HG2US | Android O | MC330M-SI3HG2IN | Android O |
| MC330K-RL3HG3RW | Android O | MC330M-GJ3HG2RW | Android O |
| MC330M-GL4HG2RW | Android O | MC330M-SK3HG2RW | Android O |
| MC330M-GL2HG2RW | Android O | MC330M-SJ4HG2RW | Android O |
| MC330M-GI4HG2RW | Android O | MC330M-SJ3HG2RW | Android O |
| MC330M-GI4HG2IN | Android O | MC330M-SJ2HG2RW | Android O |
| MC330M-GI3HG2IN | Android O | MC330M-SJ4HG2US | Android O |
| MC330M-GI2HG2RW | Android O | MC330K-GJ4HG4RW | Android O |
| MC330K-SL4HG3RW | Android O | MC330K-GJ4HG3RW | Android O |
| MC330K-SL2HG3RW | Android O | MC330M-SK4HG2US | Android O |
| MC330K-RL4HG3RW | Android O | MC330M-SJ3HG2US | Android O |
| MC330K-RL4HG3US | Android O | MC330M-GJ4HG2RW | Android O |
| MC330K-SI3HG3RW | Android O | MC330M-GJ4HG2IN | Android O |

| | | | |
|---|---|---|---|
| MC330K-SN4HG3RW | Android O | MC330M-GJ3HG2IN | Android O |
| MC330K-SN3HG3RW | Android O | MC330M-GJ2HG2RW | Android O |
| MC330K-SI4HG3RW | Android O | MC330K-SJ3HG3RW | Android O |
| MC330K-SI2HG3RW | Android O | MC330K-SK4HG3RW | Android O |
| MC330K-GL3HG4RW | Android O | MC330K-SK3HG3RW | Android O |
| MC330K-GL3HG3RW | Android O | MC330K-SJ4HG3RW | Android O |
| MC330K-GL2HG3RW | Android O | MC330K-SJ2HG3RW | Android O |
| MC330K-GI3HG4RW | Android O | MC330K-GJ3HG4RW | Android O |
| MC330K-GI3HG3RW | Android O | MC330K-GJ3HG3RW | Android O |
| MC330K-GE4HG4RW | Android O | MC330K-SJ4HG3US | Android O |
| MC330K-GE4HG3RW | Android O | MC330K-SK4HG3US | Android O |
| MC330K-GE3HG3RW | Android O | MC330K-SJ3HG3US | Android O |
| MC330K-GE2HG4RW | Android O | MC330M-GJ4HG2US | Android O |
| MC330K-GE2HG3RW | Android O | MC330K-SA3HG4RW | Android O |
| MC330K-SI4HG3US | Android O | MC330K-SM4HG4RW | Android O |
| MC330K-SN4HG3US | Android O | MC330K-SM3HG4RW | Android O |
| MC330K-SI3HG3US | Android O | MC330K-SA4HG4RW | Android O |
| MC330K-RC3HG4RW | Android O | MC330K-SA4HG4US | Android O |
| MC330K-RC4HG4RW | Android O | MC330K-SM4HG4US | Android O |
| MC330K-RC4HG4US | Android O | MC330K-SM3HG4US | Android O |
| MC330M-GI4HG2US | Android O | MC330K-SA3HG4US | Android O |
| MC330K-RC3HG4US | Android O | MC330K-GJ4HG4US | Android O |
| MC330K-SB3HG4RW | Android O | MC330K-GJ4HG3US | Android O |
| MC330K-SP4HG4RW | Android O | MC330M-GJ3HG2US | Android O |
| MC330K-SP3HG4RW | Android O | MC330M-GJ2HG2US | Android O |
| MC330K-SB4HG4RW | Android O | MC330K-GJ3HG3US | Android O |
| MC330K-SB4HG4US | Android O | MC330K-GJ3HG3IN | Android O |
| MC330K-SP4HG4US | Android O | MC330M-SJ3HG2IN | Android O |
| MC330K-SP3HG4US | Android O | MC330K-GI2HG3RW | Android O |
| MC330K-SB3HG4US | Android O | MC330K-SP2HG4RW | Android O |
| MC330K-GI4HG4US | Android O | MC330K-GJ2HG3RW | Android O |
| MC330K-GI4HG3US | Android O | MC330K-SM2HG4RW | Android O |
| MC330K-SE4HG3RW | Android O | | |

MC3300R Home Page

| MC3300R | |
|---|---|
| **Device Part Number** | **Operating System** |
| MC333R-GI2HG4US | Android O |
| MC339R-GE2HG4US | Android O |
| MC339R-GF2HG4US | Android O |
| MC333R-GI2HG4EU | Android O |
| MC339R-GE2HG4EU | Android O |
| MC339R-GF2HG4EU | Android O |
| MC333R-GI2HG4IN | Android O |
| MC339R-GF2HG4IN | Android O |
| MC333R-GI2HG4JP | Android O |
| MC333R-GI2HG4WR | Android O |
| MC339R-GE2HG4WR | Android O |
| MC339R-GF2HG4WR | Android O |
| MC333R-GI4HG4WR | Android O |
| MC333R-GI4HG4JP | Android O |
| MC333R-GI4HG4IN | Android O |

| MC3300R | |
|---|---|
| **Device Part number** | **Operating System** |
| MC333R-GI3HG4US | Android O |
| MC339R-GE3HG4US | Android O |
| MC339R-GF3HG4US | Android O |
| MC333R-GI3HG4EU | Android O |
| MC339R-GE3HG4EU | Android O |
| MC339R-GF3HG4EU | Android O |
| MC333R-GI4HG4US | Android O |
| MC339R-GE4HG4US | Android O |
| MC339R-GF4HG4US | Android O |
| MC333R-GI4HG4EU | Android O |
| MC339R-GE4HG4EU | Android O |
| MC339R-GF4HG4EU | Android O |
| MC339R-GF4HG4WR | Android O |
| MC339R-GF4HG4IN | Android O |
| MC339R-GE4HG4WR | Android O |

## Component Versions

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

| Component / Description | Version |
|---|---|
| **Product Build Number** | 02-52-21.00-OG-U03-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** | 23.3.8.1 |
| **SimulScan** | 4.0.5 |
| **SimulScanEngine** | 3.0.1 |
| **DataWedge** | 8.2.211 |
| **EMDK** | 9.0.4.3004 |
| **MXMF / OSX** | MXMF: 10.3.0.29 / OSX: QCT.81.8.15.0 |

| WiFi | FUSION_BA_2_11.1.0.017_O |
|---|---|
| | Radio: BA_2_11.1.0.012_O |
| | Application: BA_2_11.1.0.006_O |
| | Middleware: BA_2_11.1.0.008_O |
| | Firmware: w\|0: Nov 19 2021 11:52:42 version 7.35.205.8 (r) FWID 01-3b5abe16 |
| NFC | NFC_NCIHALx_AR003C.8.3.0_O_OpnSrc |
| PTT | 3.1.54 |
| Touch FW | TC70x/TC75x: 1.9-Stylus-1-0 |
| | TC51/TC56: 1.8-Stylus-2-0 |
| RxLogger | 5.4.16.0 |
| Bluetooth Pairing Utility | 3.16 |
| Zebra Data Service | 7.0.2.1047 |
| Files | 8.1.0 |
| Stage Now | 5.1.0.1 |
| Battery Swap | 1.0 |
| User Guide | TC51: 1.0, TC56: 2.0, TC70x/TC75x: 1.0.0 |
| Camera | 2.0.002 |
| MSRN | 2.01 |
| Zebra Volume Control (ZVC) | 2.3.1.12 |
| Battery Manger | 1.4.2 |
| ActiveEdge | 2.5.16 |
| WorryFree WiFi Analyzer | WFW_BA_2_7.0.0.001_O |
| Device Central | 2.1.0.17 |
| Zebra Software License Manager | 6.0.8 |
| 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: DO1.1 Cellular: N/A |
| OemInfo | 9.0.0.565 |
| Enterprise Keyboard (EKB) | 2.2.2.3 |
| RFID Module | MC3300R: PAAEES00-001-R03 |
| RFID Radio | MC3300R: 2.0.30.0 |
| Zebra RFID Mobile (Demo App) | MC3300R: 1.0.4.1 |
| RFID Manager Application | MC3300R: 2.0.10.3 |
| RFID System Service | MC3300R: 2.0.4.4 |

| | |
|---|---|
| **Baseband** | ATLAS-W220112A-016.1-00064.0 |
| **Fingerprint** | Zebra/TC51/TC51:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/TC51/TC51HC:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/TC70x/TC70x:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/TC75x/TC75x:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/TC75x/TC75xDF:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/TC56/TC56:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/MC33/MC33:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/MC33/MC33C:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| | Zebra/VC80x/VC80x:8.1.0/02-52-14.00-OG-U00-STD/532:user/release-keys |
| **Security Patch Level** | October 05, 2021(Critical Patch Level: April 01, 2022) |
| **GMS Version** | 8.1_201812 |

## Important Links

- https://techdocs.zebra.com/datawedge/8-1/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/rxlogger/5-4/guide/about/

# Revision History

| REV | DESCRIPTION | DATE |
|---|---|---|
| 1.0 | Initial Release | April 12, 2022 |