



Release Notes for Zebra Android Oreo 02-52-21.00-OG-U12-STD Release (GMS)

Highlights

The details of the Android GSM Oreo LifeGuard release 02-52-21.00-OG-U12-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-U12-STD.zip	LG Package Update

Security Updates

This build is Compliant with to [Android Security Bulletin](#) of October 05, 2021(Critical Patch Level: October 01, 2023).

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-U12-STD
Android Version	8.1.0
Security Patch level	October 05, 2021 (Critical Patch Level: October 01, 2023)
Linux Kernel	3.10.84
Component Versions	Please see Component Version under Addendum section

LG U12 Update:

- ❖ ATLAS_DELTA_UPDATE_02-52-21.00-OG-U12-STD.zip (GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: October 01, 2023).
- Adding DW version 8.2.216 ZPK version from pi3.20_datawedge-8.2

Resolved Issues.

- CVE-2023-35673-Patched Fix for integer overflow in build_read_multi_rsp
- SPR47199/SPR50999: Resolved an issue where TC51 and TC70x outputs duplicate scanned data at random times during scanning.
- SPR38651 – Resolved an issue for System Date set to unsupported value after reset
- SPR: 46691: Resolved an issue where the key state of the orange key was not seen when EHS is installed.
- SPR50811 – Resolved an issue for Intermittent Delay in BLE connection with RFD8500

LG U09 Update:

- ❖ ATLAS_DELTA_UPDATE_02-52-21.00-OG-U09-STD.zip (GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: July 01, 2023).

Resolved Issues.

- SPR-50289: an issue for MC33 SE4850 where scanner was not working on trigger press in U04 build.
- SPR-50112: Resolved an issue to avoid considering random MAC for BLE scanning .

LG U07 Update:

- ❖ ATLAS_DELTA_UPDATE_02-52-21.00-OG-U07-STD.zip (GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: April 01, 2023).

Resolved Issues.

- Bug fix for BSPA-233803 : Resolved an issue where Oem info stopped crash was seen while doing enable/disable BT and WI-FI.

LG U06 Update:

❖ ATLAS_DELTA_UPDATE_02-52-21.00-OG-U06-STD.zip (GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: Jan 01, 2023).

Resolved Issues

CVE-2020-10367 Patched the missing permissions check vulnerability which could enable Bluetooth core to write memory used by the Wi-Fi core

LG U05 Update:

❖ ATLAS_DELTA_UPDATE_02-52-21.00-OG-U05-STD.zip (GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: Oct 01, 2022).
- WorryFree WiFi Analyzer updated to WA_A_2_7.4.0.002_O

Resolved Issues

SPR46855 - Resolved an issue wherein scanning in HID mode was intermittently causing repetition of characters until the scanner was unplugged

LG U04 Update:

❖ ATLAS_DELTA_UPDATE_02-52-21.00-OG-U04-STD.zip (GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: July 01, 2022).
- OSx version: QCT.81.8.16.0
- Scanning Framework : 23.3.8.3

Resolved Issues

- SPR45698 – Resolved an issue wherein MSI Check digit is shown in decoded data even though the MSI Check digit option is not enabled.
- SPR45288/46611– Resolved an issue wherein HW Picklist scanning performance is degraded when device is updated to U23.
- SPR46337 - Changed the Vodafone Portugal Apn settings.
- SPR46069 – Resolved an issue wherein device was going into rescue party mode randomly.
- SPR44489 – Upgraded the touch panel firmware to better calibrate to different touch modes.
- SPR46132 – Resolved an issue wherein device fails to pair with ZQ630 intermittently.

- SPR38958 - Resolved an issue wherein VPN connection was not using Domain name.

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

MC3300

Device Part Number	Operating System
MC330M-RL4SG2RW	Android O
MC330M-RL2SG2RW	Android O
MC330M-RL3SG2US	Android O
MC330M-RL2SG2US	Android O
MC330M-SL2HG2RW	Android O
MC330M-RL3SG2RW	Android O
MC330M-GL3HG2RW	Android O
MC330M-GI3HG2RW	Android O
MC330M-SL3HG2RW	Android O
MC330M-RL3HG2RW	Android O
MC330M-SL4HG2US	Android O
MC330M-SL3HG2US	Android O
MC330M-RL4SG2US	Android O
MC330M-RL3HG2US	Android O
MC330K-RL3SG3RW	Android O
MC330M-SN3HG2RW	Android O
MC330M-SI4HG2RW	Android O
MC330M-SI3HG2RW	Android O
MC330M-SI2HG2RW	Android O
MC330M-SI4HG2US	Android O
MC330K-GL4HG3RW	Android O
MC330K-GI4HG4RW	Android O
MC330K-GI4HG3RW	Android O
MC330M-SN4HG2US	Android O
MC330M-SI3HG2US	Android O
MC330K-RL3HG3RW	Android O
MC330M-GL4HG2RW	Android O
MC330M-GL2HG2RW	Android O
MC330M-GI4HG2RW	Android O
MC330M-GI4HG2IN	Android O
MC330M-GI3HG2IN	Android O
MC330M-GI2HG2RW	Android O
MC330K-SL4HG3RW	Android O
MC330K-SL2HG3RW	Android O
MC330K-RL4HG3RW	Android O
MC330K-RL4HG3US	Android O

Device Part number	Operating System
MC330K-SE3HG3RW	Android O
MC330K-SE2HG3RW	Android O
MC330M-GL4HG2US	Android O
MC330M-GL3HG2US	Android O
MC330M-GL2HG2US	Android O
MC330M-GI3HG2US	Android O
MC330M-GI2HG2US	Android O
MC330K-SE4HG3US	Android O
MC330K-SE3HG3US	Android O
MC330K-GL4HG3US	Android O
MC330K-SE2HG3US	Android O
MC330K-GL4HG4US	Android O
MC330K-GI3HG3US	Android O
MC330K-SG3HG4RW	Android O
MC330K-SG2HG4RW	Android O
MC330K-GE4HG3US	Android O
MC330K-GE3HG3US	Android O
MC330K-GE2HG3US	Android O
MC330K-SG4HG4US	Android O
MC330K-SG3HG4US	Android O
MC330K-SG2HG4US	Android O
MC330K-GE4HG4US	Android O
MC330K-GE2HG4US	Android O
MC330K-GI3HG3IN	Android O
MC330M-SI3HG2IN	Android O
MC330M-GJ3HG2RW	Android O
MC330M-SK3HG2RW	Android O
MC330M-SJ4HG2RW	Android O
MC330M-SJ3HG2RW	Android O
MC330M-SJ2HG2RW	Android O
MC330M-SJ4HG2US	Android O
MC330K-GJ4HG4RW	Android O
MC330K-GJ4HG3RW	Android O
MC330M-SK4HG2US	Android O
MC330M-SJ3HG2US	Android O
MC330M-GJ4HG2RW	Android O

MC330K-SI3HG3RW	Android O
MC330K-SN4HG3RW	Android O
MC330K-SN3HG3RW	Android O
MC330K-SI4HG3RW	Android O
MC330K-SI2HG3RW	Android O
MC330K-GL3HG4RW	Android O
MC330K-GL3HG3RW	Android O
MC330K-GL2HG3RW	Android O
MC330K-GI3HG4RW	Android O
MC330K-GI3HG3RW	Android O
MC330K-GE4HG4RW	Android O
MC330K-GE4HG3RW	Android O
MC330K-GE3HG3RW	Android O
MC330K-GE2HG4RW	Android O
MC330K-GE2HG3RW	Android O
MC330K-SI4HG3US	Android O
MC330K-SN4HG3US	Android O
MC330K-SI3HG3US	Android O
MC330K-RC3HG4RW	Android O
MC330K-RC4HG4RW	Android O
MC330K-RC4HG4US	Android O
MC330M-GI4HG2US	Android O
MC330K-RC3HG4US	Android O
MC330K-SB3HG4RW	Android O
MC330K-SP4HG4RW	Android O
MC330K-SP3HG4RW	Android O
MC330K-SB4HG4RW	Android O
MC330K-SB4HG4US	Android O
MC330K-SP4HG4US	Android O
MC330K-SP3HG4US	Android O
MC330K-SB3HG4US	Android O
MC330K-GI4HG4US	Android O
MC330K-GI4HG3US	Android O
MC330K-SE4HG3RW	Android O

MC330M-GJ4HG2IN	Android O
MC330M-GJ3HG2IN	Android O
MC330M-GJ2HG2RW	Android O
MC330K-SJ3HG3RW	Android O
MC330K-SK4HG3RW	Android O
MC330K-SK3HG3RW	Android O
MC330K-SJ4HG3RW	Android O
MC330K-SJ2HG3RW	Android O
MC330K-GJ3HG4RW	Android O
MC330K-GJ3HG3RW	Android O
MC330K-SJ4HG3US	Android O
MC330K-SK4HG3US	Android O
MC330K-SJ3HG3US	Android O
MC330M-GJ4HG2US	Android O
MC330K-SA3HG4RW	Android O
MC330K-SM4HG4RW	Android O
MC330K-SM3HG4RW	Android O
MC330K-SA4HG4RW	Android O
MC330K-SA4HG4US	Android O
MC330K-SM4HG4US	Android O
MC330K-SM3HG4US	Android O
MC330K-SA3HG4US	Android O
MC330K-GJ4HG4US	Android O
MC330K-GJ4HG3US	Android O
MC330M-GJ3HG2US	Android O
MC330M-GJ2HG2US	Android O
MC330K-GJ3HG3US	Android O
MC330K-GJ3HG3IN	Android O
MC330M-SJ3HG2IN	Android O
MC330K-GI2HG3RW	Android O
MC330K-SP2HG4RW	Android O
MC330K-GJ2HG3RW	Android O
MC330K-SM2HG4RW	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-U12-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	23.3.8.4
SimulScan	4.0.5
SimulScanEngine	3.0.1
DataWedge	8.2.216
EMDK	9.0.4.3004
MXMF / OSX	MXMF: 10.3.0.29 / OSX: QCT.81.8.16.0

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: wj0: Nov 19 2021 11:44:34 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: 1.9.7-Stylus-1-0 TC51/TC56: 1.8.1-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	WA_A_2_7.4.0.003_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	9.0.0.614
Enterprise Keyboard (EKB)	2.2.2.3
RFID Module	MC3300R: PAAEES00-001-R00
RFID Radio	MC3300R: 2.0.29.0
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/TC51:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/TC51/TC51HC:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/TC70x/TC70x:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/TC75x/TC75x:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/TC75x/TC75xDF:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/TC56/TC56:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/MC33/MC33:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/MC33/MC33C:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
	Zebra/VC80x/VC80x:8.1.0/02-52-21.00-OG-U00-STD/532:user/release-keys
Security Patch Level	October 05, 2021 (Critical patch level: October 1, 2023)
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	October 21, 2023