

Release Notes – Zebra Android Oreo – L10A 01-50-29.00-ON-U05-STD Release (AOSP)

Highlights

This Android Oreo AOSP Release 01-50-29.00-ON-U05-STD covers L10A family of products. Please see, Device Compatibility under Device Support Section for more details.

This release includes all fixes that are part of BSP 1.30.04 with LifeGuard Update 46.

Software Packages

Package Name	Description
HE_DELTA_UPDATE_01-50-29.00-ON-U05-STD.zip	LG Package Update U05

Security Updates

This build is Compliant up to [Android Security Bulletin](#) of Oct 05, 2021.

LifeGuard Update 05:

- This LG patch is applicable for 01-50-29.00-ON-U00-STD BSP version.

Fixes

- SPR52480 – Resolved an issue wherein the device entered Rescue Party Mode, due to a platform bug in Android 8 which was exposed during the one of the system app upgrade processes from Google Play Store on 18th December 2023..

Features

- None

LifeGuard Update 04:

- This LG patch is applicable for 01-50-29.00-ON-U00-STD BSP version.
The LG Patch includes the following updated components.
 - Datawedge : 8.2.215

Fixes

- SPR45691 - Resolved an issue where the Device lost Audio connectivity with HS3100 after some idle time
- SPR45600 - Resolved an issue wherein DW Api Suspend_Plugin sometimes remains in a Waiting for the state.
- SPR39760 - Resolved an issue wherein touch gets auto released after 15 secs during long press event in TC52/57 device.
- SPR46125 - Resolved an issue wherein QR code enrollment was not working.

Features

- Added support for BMI270/ICM42607 Gyroscope/accelerometer Sensors
- NFC Updates

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	01-50-29.00-ON-U04-STD
Android Version	8.1.0
Security Patch level	Oct 05, 2021
Linux Kernel	4.4.78
Component Versions	Please see Component Version under Addendum section

Usage Notes

- This release includes all fixes that are part of BSP 1.30.04 with LifeGuard Update 44.
- Devices with BMI270/ICM42607 Gyroscope/accelerometer Sensor shouldn't use software released before 01-50-29.00-ON-U04. To identify the Gyroscope/accelerometer sensor on the device users can check the ro.config.device.gyro property using getprop command from adb.
- 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

BMI270/ICM42607 Gyroscope/accelerometer sensor devices require 01-50-29.00-ON-U04-STD or higher to ensure full G-sensor functionality

- L10A devices with new display ZBR_R47 and touch EXC86H82 cannot be downgraded to BSPs below 01-50-29.00-ON-U00-STD.

To identify display type, users can check 'ro.config.device.display' property using getprop command from adb.

- L10A devices with new display ZBR_R47 and touch EXC86H82 cannot be downgraded to BSPs below 01-50-29.00-ON-U00-STD.

To identify display type, users can check 'ro.config.device.display' property using getprop command from adb.

- Devices with new display ZBR_R47 will have [ro.config.device.display]: [513]
- Devices with display EP101R1912N1000TG will have [ro.config.device.display]: [2001]

To identify touch type, users can check 'ro.config.device.touch' property using getprop command from adb.

- Devices with new touch EXC86H82 will have [ro.config.device.touch]: [32770]
- Devices with touch EXC3161 will have [ro.config.device.touch]: [32768]

- Devices with WLAN Front End Module 45868, LG CFE Patch U41 or above is a Mandatory patch for BSP 1.30.04.

- WLAN Front End Module can be identified using adb shell getprop ro.config.device.wlan_fem [ro.config.device.wlan_fem]: [QM45868]

Important Links

- **Requirements and Instructions**
 - [Installation and setup instructions](#)
- [Zebra Techdocs](#)
- [Developer Tools](#)

Upgrade Options

Below table provides detailed information on shortest path to upgrade based on current version of software.

Current Software Version on Device	Steps to get to this Release	Comments
01-21-18.00-ON-Uxx 01-23-18.00-ON-Uxx	Apply Full Package Update HE_FULL_UPDATE_01-50-29.00-ON-U00-STD.zip Followed by Apply Delta Update HE_DELTA_UPDATE_01-50-29.00-ON-U05-STD.zip	Full Package Update
01-30-04.00-ON-Uxx	Option 1: Apply Delta Package Update HE_DELTA_UPDATE_01-30-04.00-ON_TO_01-50-29.00-ON.zip Option 2: Apply Full Package Update HE_FULL_UPDATE_01-50-29.00-ON-U00-STD.zip Followed by Apply Delta Update HE_DELTA_UPDATE_01-50-29.00-ON-U05-STD.zip	Option 1 is recommended as size of Delta package update is smaller compared to Full Package Update
01-50-29.00-ON-UXX	Apply Delta Update HE_DELTA_UPDATE_01-50-29.00-ON-U05-STD.zip	

Known Constraints and Workarounds

- WiFi sleep policy set to “Always” (Android O limitation)
- Some devices operate at 320 dpi. This screen configuration results in the majority of the AOSP applications displaying content consistently in both portrait and landscape modes. In most cases if the application layout is not optimal in landscape it is optimal in portrait or vice versa. However, there are a few applications that do not render properly in either portrait or landscape. In this case the suggested alternative is to change the display size using the bundled Display Settings APK or use settings menu to change the display size and font size (settings > Display > Advanced settings > Display Size / Font Size).
- Upgrading from a higher SPL level in Oreo to a lower SPL level in A10, will result in loss of user data.
- Illumination brightness is set to maximum by default for SE4710 and SE4750 Scan Engines.

Device Support

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

Device Family	Part Number	Device Specific Manuals and Guides
L10AW	RTL10B1-xxAxxX0x00CN (China) <i>Note: 'x' Stands for wild card for different configurations.</i>	L10 Home Page

Addendum

Component Versions

Component / Description	Version
AnalyticsMgr	2.4.0.1254
Battery Management	Version: 1.4.2
Bluetooth Pairing Utility	Version 3.16
Device Central	2.1.0.15
DataWedge	8.2.215
EMDK	9.0.3.3003
Enterprise Keyboard	2.2.2.3
System Update	3.6.0.1
MXMF	10.3.0.28
OSX	QCT.81.8.27.23
StageNow-Client	5.1.0.1
Wi-Fi	FUSION_QA_2_1.11.0.026_O
License Manager	5.0.0
MSRN	2.01
NFC	NFC_NCIHALx_ARC0.8.4.0
PTT Express	3.1.54
Rxlogger and RxLoggerUtility	Version 5.4.16.0 and Version: 1.3.3.12

Scanning Framework	23.1.24.1
WorryFree Wifi Analyzer	3.2.13
Android Webview	85.0.4183.101

Revision History

Rev	Description	Date
1.0	Initial Release	April 28, 2022
2.0	Rescue Party Mode resolved	January 23,2024