Release Notes – Zebra Android 10

10-30-02.00-QG-U23-STD-HEL-04 Release (GMS)

Highlights

This Android 10 GMS release 10-30-02.00-QG-U23-STD-HEL-04 covers L10A family of products. Please see Device Compatibility under Device Support 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
HE_DELTA_UPDATE_10-30-02.00-QG-U23-STD-HEL-04.zip	LG Package Update

Security Updates

This build is Compliant up to Android Security Bulletin of February 05, 2023 (Critical Patch Level: July 01, 2023).

LifeGuard Update 23

➢ This LG patch is applicable for 10-30-02.00-QG-U00-STD-HEL-04 BSP version.

- o This LG Patch includes following updated components.
  - MXMF: 10.5.1.1

- o **New Features**
  - None.

- o **Resolved Issues**
  - SPR50446 - Resolved an issue wherein Devices were still enabling DST for Mexico even though it's no longer used.
  - SPR48173 - Resolved an issue wherein GPS location data not available on random reboots.
  - SPR48159 - Resolved an issue wherein TC26, TC21 devices had an echo problem during the VOIP call.
  - SPR47822 - Touch inputs were being missed or not recognized in colder temperatures on ET51\ET56 in Glove and Finger mode.

- SPR48783 - Resolved an issue wherein on TC52, TC57, TC57x, TC52x HC devices speaker grill was getting detached due to heat generated internally when charging in charge cradle.

- SPR48128 - Resolved an issue of unable to Initialize error for WFC 9.0.22110-20220615.045224.

- SPR48681 - Resolve an issue where Android display API results 8-inch screen size for 10-inch display.

- SPR50189 - Fix to avoid PMK caching in framework for FT and WPA3.

- SPR48371 - Resolved an issue wherein the device doesn't restart - Power on doesn't run after doing battery swapping.

- SPR48536 - Resolved an issue wherein device will be in reboot-loop after applying BatteryManager Stagenow configurations and restarted.

o **Usage Notes**

- None.

LifeGuard Update 21

➤ This LG patch is applicable for 10-30-02.00-QG-U00-STD-HEL-04 BSP version.

  o This LG Patch includes following updated components.

- Zebra Software License Manager: 6.0.13
- WorryFree WiFi Analyzer: WA_A_2_7.4.0.003_Q
- RxLogger: 6.0.7.0
- EMDK: 9.1.6.3206
- OSX: QCT.100.10.13.70
- MXMF: 10.5.0.99
- Scanning Framework: 28.13.2.0

  o **New Features**

- Added support to bypass and programmatically accept the immersive mode display message for full screen applications using custom feature CSP.
- Added support for Corded Adapter (CBL-RS5X6-ADPWT-01) in WT6300 for RS5100, RS6100.
- Added support for RS6100 Ring Scanner.
- Added support for new digitizer in L10 device.

  o **Resolved Issues**

- SPR46924 - Resolved an issue wherein Datawedge ADF was not working as expected.

- SPR46953/46575 - Resolved an issue wherein data connection was not working when proxy is used in APN settings.

- SPR46893 - Resolved an issue wherein it was not possible to set user defined APN as default using StageNow.

- SPR47262 - Resolved an issue wherein VoLTE feature was not enabled for a German carrier.

- SPR47522/47409 - Resolved an issue wherein poor voice quality was observed in VoLTE connections at Nordic carrier.

- SPR47143 - Resolved an issue wherein few additional log messages were enabled.

- SPR47308 - Resolved an issue wherein setting volume using AudioVolMgr was not working using OEMConfig.

o **Usage Notes**

- Under Usage Notes of LifeGuard Update U16, constraint on 'Creating staging profile for battery manager, Mx version 10.4 or below should be selected' has been removed.

- L10A devices with new display ZBR_R47 and digitizer(ro.config.device.digitizer=1) require 10-30-02.00-QG-U21-STD-HEL-04 or higher to ensure full Digitizer functionality.
    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]
    To identify digitizer device type, users can check 'ro.config.device.digitizer' property using getprop command from adb.
    - Devices with digitizer will have [ro.config.device.digitizer]: [1]
    - Devices with without digitizer will have [ro.config.device.digitizer]: [0]
    User can identify the digitizer firmware version from settings.
    - Settings -> About Phone -> SW components -> Digitizer FW Version 2140
    - 2140 is new Digitizer value.

LifeGuard Update 16

➢ This LG patch is applicable for 10-30-02.00-QG-U00-STD-HEL-04 BSP version.

o **New Features**

- Added support in Mx to enable/disable the charging indicator LED (PS20 supported this since MX 8.1)

o **Resolved Issues**

- SPR45116/44265 - Resolved an issue wherein Rxlogger was not able to capture memory and battery related information.

- SPR44931 - Resolved an issue wherein device would experience intermittent reboots due to UsageStats API in Rxlogger.

- SPR46067 - Resolved an issue wherein slowness was observed while capturing pictures.

- SPR46630 - Resolved an issue wherein pre-filter was not working in Datawedge RFID plugin.

- SPR46415 - Resolved an issue wherein device would not resume after performing hot swap.

- SPR46655 - Resolved an issue wherein key event was getting dropped intermittently when both L2 and R2 keys are simultaneously pressed.

- SPR46799 - Resolved an issue wherein Stagenow profile would fail to apply due to corruption in downloaded files.
- SPR45951 - Resolved an issue wherein country support were not available for 14 countries.
- SPR46422 – Resolved an issue wherein after performing long battery hot swap, ringer becomes silenced without notification after reboot.

- o **Usage Notes**
  - To create staging profile for battery manager, Mx version 10.4 or below should be selected. Selecting MX version 10.5 or later will result in Staging Error "DSD version invalid: The profile uses a newer MX version that is not present on the device".

LifeGuard Update 15

- ➢ LifeGuard Update 15 contains security updates only.
- ➢ This LG patch is applicable for 10-30-02.00-QG-U00-STD-HEL-04 BSP version.

- o **New Features**
  - None

- o **Resolved Issues**
  - None

- o **Usage Notes**
  - None

LifeGuard Update 06

- ➢ This LG patch is applicable for 10-30-02.00-QG-U00-STD-HEL-04 BSP version.

- o **New Features**
  - Added support for querying touch mode, MX version and WLAN properties in OEM Info.

- o **Resolved Issues**
  - SPR46220 - Resolved an issue wherein intermediate files were being retained along with snoop logs when BT Snoop logging was enabled in Rxlogger.
  - SPR45910 - Resolved an issue wherein user was not able to enable Hotspot using EMDK/Stage Now after SIM card was removed.
  - SPR46231 - Resolved an issue wherein upon scanning while in chrome browser resulted in tab switching instead of displaying barcode data.

- SPR46101/45372 - Resolved an issue wherein Velocity App updated via play store was getting deleted post an OS update on a device enrolled with MS INTUNE.

- SPR46227 - Resolved an issue wherein BT headsets were experiencing distorted audio when it was operating in Narrow band frequencies.

- SPR46162 - Resolved an issue wherein user was not able to use USB keyboard when access to USB storage from computer was disabled using MX Access Mgr.

- SPR45688 - Resolved an issue wherein BLE scanning would stop after few seconds if scanning were performed with any filter.

o Usage Notes

- 10-16-10.00-QG-U120-STD-HEL-04 is not applicable for L10A devices with Display ZBR_R47 and touch EXC86H82.
  - 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]

- BMI270/ICM42607 Gyroscope/accelerometer sensor devices require 10-30-02.00-QG-U02-STD-HEL-04 or higher to ensure full G-sensor functionality.
- The installed Gyroscope/Accelerometer sensors can be identified either in SETTINGS or via ADB command:

  SETTINGS
  - 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.
  - Devices with BMI270 Gyroscope/accelerometer sensor will have ro.config.device.gyro = 32 ro.config.device.accelerometer=120
  - Devices with ICM42607 Gyroscope/accelerometer sensor will have ro.config.device.gyro = 260 ro.config.device.accelerometer=2052

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	10-30-02.00-QG-U23-STD-HEL-04

Android Version	10
Security Patch level	February 05, 2023 (Critical Patch Level: July 01, 2023)
Component Versions	Please see Component Versions under Addendum section

Known Constraints

- Picture quality of the image taken with 'Night Mode' in low-light conditions is poor.
- Trigger Modes: Presentation Read Mode is preferred over Continuous Read Mode. If using Continuous Read mode, use a lower illumination brightness setting (e.g., 2) to ensure the scanner can work without interruption.
- "Red Eye Reduction" feature disables the camera flash in the device. Hence, to enable the camera flash please disable the 'Red Eye Reduction' feature.
- EMM does not support agent persistence in OS dessert downgrade scenario.
- Reset packages of Oreo should not be used on devices running with A10 software.
- In-order to avoid any inconsistencies in Settings UI it is recommended to wait for a few seconds after the device boots up.
- Transparent blue overlay in camera view –numeric, character or ENTER key presses in camera view will make this blue overlay appear. The camera is still functional; however, the view is covered with the blue overlay. To clear this, press the TAB key to move the control to a different menu item or close the camera app.
- In case of an OS upgrade from a s/w version having higher security patch level to a s/w version having lower security patch level, user data will be reset.
- Unable to scan remote company network using ES file explorer over VPN.
- When phone app is being disabled using MDM and user tries to reboot the device, user might see **Recovery Screen** with "Try again" and "Factory data reset" options. Select option "Try again" to continue the reboot process. Do not select option "Factory data reset", as it will erase the user data.
- AppManager actions only apply to the applications on the device at the time "DisableGMSApps" is called. New GMS applications present in any new OS update will not be disabled following that update
- After upgrading from Oreo to A10, Device shows "SD card setup" notification, which is expected behavior from AOSP.
- After upgrading from Oreo to A10, staging fails on few packages, user must update package names accordingly and make use of the profiles or create new staging profiles.
- At the very first time, DHCPv6 enable through CSP is not reflecting until user disconnect/reconnect to the WLAN profile.
- Stagenow package name has been changed to com.zebra.devicemanager, This can cause issues with AE enrollments and locking down an unit like with EHS or EMM lockdowns. This Issue will be fixed on June 2022 LifeGuard Release.

Important Links

- Installation and setup instructions (if the link does not work, please copy it to browser and try)

   Note: "As part of IT security best practices, Google Android enforces that the Security Patch Level (SPL) for the new OS or patch must be the same level or a newer level than the OS or patch version currently on the device. If the SPL for the new OS or patch is older than the SPL currently on the device, then the device will enterprise reset and wipe all user data and settings including user network configurations and remote management tools which would render the device inaccessible over a network."

- Zebra Techdocs
- Developer Portal

Device Support

Device Compatibility

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

Device Family	Part Number		Device Specific Manuals and Guides
L10A	RTL10B1-xxxxxxxxxxNA (North America) RTL10B1-xxAxxX0x00A6 (ROW) *Note: 'x' Stands for wild card for different configurations*	RTL10B1-xxAxxX0x00IN (India) RTL10B1-xxxxxxxxxxRU (Russia)	L10A Home Page

Addendum

Component Versions

Component / Description	Version
Linux Kernel	4.4.205
AnalyticsMgr	2.4.0.1254
Android SDK Level	29
Audio (Microphone and Speaker)	0.35.0.0
Battery Manager	1.1.7
Bluetooth Pairing Utility	3.25
Camera	2.0.002
DataWedge	8.2.708
EMDK	9.1.5.3206
Files	10
License Manager and License Agent	version 6.0.13 and version 6.0.40.5.0.3
MXMF	10.5.1.1

NFC	NFC_NCIHALx_AR18C0.a.3.0
OEM info	9.0.0.699
OSX	QCT.100.10.13.70
RXlogger	6.0.7.0
Scanning Framework	28.13.2.0
StageNow	5.3.0.4
WLAN	FUSION_QA_2_1.3.0.051_Q
Baseband	W220714A_024.1-00895
Zebra Bluetooth Settings	2.3
Zebra Data Service	10.0.3.1001
Android Webview and Chrome	87.0.4280.101

Revision History

Rev	Description	Date
1.0	Initial release	July 24, 2023