Release Notes – Zebra Android 11

11-33-16.00-RN-U00-STD-ATH-04 Release (NGMS)

Highlights

This Android 11 NGMS release 11-33-16.00-RN-U00-STD-ATH-04 covers TC53 family of products.

Please see device compatibility under Addendum Section for more details.

Software Packages

Package Name	Description
AT_FULL_UPDATE_11-33-16.00-RN-U00-STD-ATH-04.zip	Full package update
ATH_DELTA_UPDATE_11-31-21.00-RN-U00-STD_TO_11-33-16.00-RN-U00-STD.zip	Delta package update from 11-31-21.00-RN-U00-STD to 11-33-16.00-RN-U00-STD release **Applicable for TC53 SKUs**

Security Updates

This build is Compliant up to Android Security Bulletin of **April 01, 2024**

LifeGuard Update 11-33-16.00-RN-U00

➢ This LG patch is applicable for 11-33-16.00-RN-U00-STD-ATH-04 BSP version.

- o **New Features**
  - o **Scanner 37.9.36.0:**
    - ▪ Added support to enable and disable decoders, such as US4State and other Postal decoders, in the Free-Form Image Capture Workflow and other workflows where applicable.
    - ▪ Allows the simultaneous capture of both barcodes and OCR (defined as a single alphanumeric word or element) by simply pointing at the target with the crosshair in the viewfinder. This feature supports both Camera and Integrated Scan Engines and eliminates the need to end the current session or switch between barcode and OCR functionalities.
  - o **MXMF 13.3.0.2:**
    - ▪ Added a new MX feature which allows admin to show/hide Keyguard screen on remote display.
    - ▪ Added new MX feature to enable/disable write access to Android/data and Android/obb folders

of the device, when connected via MTP.
- Added a new MX feature which allows admin to show/hide the Remote Cast/Control icon in status bar when device is remotely controlled.

- Added a feature to enable/disable Remote Control Password/Pin Unlock Device when Keyguard is engaged.

  o **Battery 1.4.80.00:**

    - Added a feature to measure battery consumption per application.

o **Resolved Issues**

- SPR-51598: Resolved an issue wherein the screen was flashing and zooming in and out of focus in DW demo app while scanning.
- SPR-51086: Resolved an issue wherein hardware picklist was not working with NG Multi Barcode settings.
- SPR-51755: Resolved an issue wherein notification setting was still accessible when App Notification control was disabled.
- SPR-51875: Resolved an issue wherein TC73 DND was not turning off itself after hotswap.
- SPR-51659: Resolved an issue wherein keyProgrammer was not starting in Kiosk mode.
- SPR-51480: Resolved an issue wherein key remapping with Shift OFF is not working.
- SPR-51746: Resolved an issue wherein DataWedge is getting disabled when an EMDK Scanning application is launched soon after a reboot.
- SPR-51525/ SPR-51409: Resolved an issue where DataWedge/ZebraCommonIME is getting selected as the default IME during scans.
- SPR-51099: Resolved an issue where user is unable to scan in the Google Setup Wizard screen.
- SPR-50986: Resolved a synchronization issue that occurs when a DataWedge profile loads upon an activity change and receives a SET_CONFIG intent at the same time that led to an ANR.
- SPR-51331: Resolved an issue where scanner remains in DISABLED state after a suspend and resuming of device.
- SPR-51244: Resolved an issue wherein ZebraCommonIME/DataWedge is getting set as the default Input Method.
- SPR-51491: Resolved an issue wherein MX configuration causes screen to dim but not time out.
- SPR-51947: Resolved an issue wherein multiple instance of Enterprise Keyboard after applying App Configuration (EMM Microsoft Intune) on TC53.
- SPR-51950: Resolved an issue with .PKCS12 file format in CertManger in android 11.
- SPR-51954: Resolved an issue wherein EHS Screen Blanking with DND Hotfix issue.
- SPR-51241: Resolved an issue wherein Ethernet Static IP and Ethernet proxy are not able to configure using EthernetMgr Mx Configuration.
- SPR-52367: Resolved an issue wherein Setting Null Power can break wifi connection until a reboot in TC53.
- SPR-52455: Resolved an issue where Bluetooth HID devices were getting disabled when USB module usage is disabled.
- SPR-52539: Resolved an issue wherein Datawedge scanning was not working after device resumes back from suspend state.

o **Usage Notes**

- None

LifeGuard Update 11-31-21.00-RN-U00

➢ This LG patch is applicable for 11-31-21.00-RN-U00-STD-ATH-04 BSP version.

- o **New Features**
  - • **RxLogger 7.0.5.31:**
    - • One Touch feature:
      - ▪ One-Touch feature is to improve the logging with just one touch to select the modules with the problem area and start logging. The logging can be configured for a particular pre-defined time duration as well, to avoid the internal flash storage wear and tear over time.

- o **Resolved Issues**
  - • SPR-52403: Resolved an issue wherein navigation bar shows up on portrait side even when tablet is held in landscape mode.
  - • SPR-51855: Resolved an issue wherein TC53 sometimes randomly reboots when it is undocked from WorkStationCradle.
  - • SPR-51696: Resolved an issue wherein RxLogger snapshot logs are not getting collected during long run.

- o **Usage Notes**
  - • None

LifeGuard Update 11-27-16.00-RN-U00

➢ This LG patch is applicable for 11-27-16.00-RN-U00-STD-ATH-04 BSP version.

- o **New Features**
  - • **MX 13.1:**
    - • Power Manager adds the ability to:
      - ▪ Turn off the power on a device.
      - ▪ Set Recovery Mode Access to features that could compromise a device.
    - • UI Manager adds the ability to:
      - ▪ Turn on/off Do Not Disturb mode on a device.
      - ▪ Enable/disable Inter-app Sharing on a device.
      - ▪ Enable/disable configuration of Accessibility options, which can help simplify device usage for those with physical and/or visual impairments.
      - ▪ Configure Touch-and-Hold Delay for key long-presses.
      - ▪ Configure two applications which are to be launched in split screen mode in a customized split ratio automatically after reboot.
      - ▪ Configure single application to be launched in full screen mode automatically after reboot.
  - • **ZRP:**
    - • PowerMgr - Set Recovery Mode Access to features that could compromise a device.

- **DataWedge:**
  - Scanner Firmware is updated with PAAFNS00-001-R06 for SE5500 Scan Engine.
  - New Picklist + OCR feature: allows capture of either a barcode or OCR (single word) by centering the desired target with the aiming crosshair or dot. Supported on both Camera and Integrated Scan Engines.
  - Added support for MP7X Scale (weight).
- **OEMInfo:**
  - Added Support for Programmatically retrieving battery information (Eg. battery level, health, model, etc.) of connected BT peripherals (ex: supported Zebra Bluetooth scanners and HS3100 headset) using OEMInfo content provider URI.
- **WLAN:**
  - Added a new mechanism to handle a crash in WLAN Firmware

- ○ **Resolved Issues**
  - SPR-50931 - Resolved an issue where Datawedge Free form OCR data formatting support has been added for the keystroke output.
  - SPR-50778 –Resolved an issue where StageNow profile to install apk with capital APK fails.
  - SPR-48863 - Resolved an issue where OEMConfig Clock Settings was not being applied for Auto time mode.
  - SPR-51046 - Resolved an issue wherein pfx certificate will not import correctly via StageNow.
  - SPR-50649 – Resolved an issue wherein intent is not passed to app even scanning barcode after Suspend/Resume.
  - Resolved issue where Android data folder is not viewable via Files app.

- ○ **Usage Notes**
  - None

LifeGuard Update 11-25-02.00-RN-U00

➤ This LG patch is applicable for 11-25-02.00-RN-U00-STD-ATH-04 BSP version.

- ○ **New Features**
  - None

- ○ **Resolved Issues**
  - SPR-50146 - Resolved an issue wherein any key remap to the Power key was not working.
  - SPR-50667 - Added reconnection support for Legacy BT devices with Security Mode 3
  - SPR50566 - Adjusted acoustic profiles based on the comparison with TC52x volume level to improve the audio throughput.
  - SPR-50233 - Fixed an issue with accelerometer sensor events not coming regularly due to camera interference with the sensor data.
  - SPR-50817 - Fixed an issue where device with extremely depleted battery would not charge on charge only dock.

- ○ **Usage Notes**

- None

LifeGuard Update 11-21-27.00-RN-U00

➢ This LG patch is applicable for 11-21-27.00-RN-U00-STD-ATH-04 BSP version.

- o **New Features**
  - Added support of BtInsights v2.0 API for paired Bluetooth peripheral.
  - Added support MX CSP 11.9 for WWAN/LAN connection Manager.
  - Added support for MX UI CSP Setting RecentApp Button/Home Key/Long Press on Home Key features for Gesture Navigation.
  - Initial Beta Release of Zebra Showcase App (Self Updatable) explores the latest features and solutions, a platform for new demos built on Zebra Enterprise Browser.
    - DWDemo has moved to the ZConfigure folder.

- o **Resolved Issues**
  - Resolved an issue wherein KeyEventService was not sending intent when a key was remapped to send Intent.
  - SPR48429 - Resolved issue where quick settings was accessible in Reduced settings mode when battery saver is turned on.
  - SPR48826 – Resolved an issue wherein notification bar was big in size.
  - SPR48066 – Resolved an issue wherein avc related log msgs were filling up the Rxlogger logs.
  - SPR50161 – Ping loss Due to Device going to suspend and taking delay in reconnection.
  - SPR48045 - Resolved an issue wherein MX not able to use host manager & host name.

- o **Usage Notes**
  - None

LifeGuard Update 11-19-15.00-RN-U00

➢ This LG patch is applicable for 11-19-15.00-RN-U00-STD-ATH-04 BSP version.

- o **New Features**
  - Added a new MX new feature that controls whether to allow all USB peripherals to be used when the device is in USB Host Mode or to restrict usage to peripherals as defined in Rules created by the administrator using the Control Rules parameter.
  - Added a new MX new feature that allows to run applications automatically upon connecting USB devices by suppressing the pop-up confirmation triggered by the Android system, if the application is marked as an auto launch application for the connected USB device.
  - DataWedge:
    - New viewfinder functionalities to vision features (Camera only)
      - Zoom(1x/2x/4x/8x) button
      - Illumination(on/off) button
      - Pinch and zoom

- Added a programmatic method to retrieve KeyStates on Keyboard enabled devices (SHIFT) **(**SPR 47506/47368).
- Improved indoor navigation use cases.

  o **Resolved Issues**

- SPR47143 - Resolved an issue wherein few additional log messages were enabled in NFC component.
- SPR47950 - Resolved an issue wherein Short Press of key was showing Power Menu.
- SPR47868 - Resolved an issue where sometimes WIFI-WWAN transition was not working.
- SPR48699 - Resolved Wi-Fi connectivity issues seen with some Cisco infrastructures where in AP did not advertise Power Constraint information and only DTPC is enabled.
- Performance enhancements and bug fixes in OCR Wedge.

  o **Usage Notes**

- None

LifeGuard Update 11-17-16.00-RN-U00

➤ This LG patch is applicable for 11-17-16.00-RN-U00-STD-ATH-04 BSP version.

  o **New Features**

- DataWedge:
- New Workflow: Free-Form OCR via Camera powered by Google ML Kit using Text Recognition v2 (Beta) API.
- Return state/country in OCR Wedge License Plate results.
- Zebra USB and Bluetooth scanner cradle support with Workstation Cradle.
- Bluetooth Pairing Utility:
- Modify size of BT pairing barcode based on screen size/resolution.
- Remove Search Magnifying Glass from Settings: Phase-2
- WorryFree WiFi (SmartMU)
- Enable/Disable Charging LED light while device is being charged
- Ability to disable the on-screen mute option in Zebra Volume Control (ZVC)
- Eliminate SD Card Pop Up

  o **Resolved Issues**

- OCR and Image capture options (Workflow input) are grayed out on DataWedge when Android Device screen lock is enabled. If OCR Wedge or Free-form Image Capture Workflow feature is required in conjunction with a device pin, it is recommended to continue to use the prior release until the next release. For Document Capture Workflow, a hot fix will be available shortly. Please contact your account team for details
- SPR47910- Resolved an issue where sometimes device enters Rescue Party mode.
- SPR47607 - Resolved an issue where device sometimes unable to resolve server names that are fully qualified domain names.

  o **Usage Notes**

- None

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	11-33-16.00-RN-U00-STD-ATH-04
Android Version	11
Security Patch level	April 01, 2024
Component Versions	Please see Component Versions under Addendum section

Device Support

The products supported in this release are TC53 family of products.

Please see device compatibility details under Addendum Section.

Known Constraints

- Delta OTA packages are not supported in Recovery mode. To apply Delta OTA packages, use StageNow/MDM solution.
- Key programmer configuration is lost after performing OS update.
- During Battery True Swap device may suspend before 30 seconds with some EMM Kiosk mode Launchers.
- User will not be able to push files into below listed directories using adb command. Alternately, EMM clients or StageNow can be used to push files into below listed directories.
    - /enterprise/

Important Links

- Installation and setup instructions (If the link does not work, please copy It to browser and try)
- Zebra Techdocs
- Developer Portal

Addendum

Device Compatibility

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

Device Family	Part Number		Device Specific Manuals and Guides
TC53	TC5301-0T2K6B1000-CN		TC53

Component Versions

Component / Description	Version
Linux Kernel	5.4.254-qgki
AnalyticsMgr	10.0.0.1008
Android SDK Level	30
Audio (Microphone and Speaker)	0.18.0.0
Battery Manager	1.4.80.00
Bluetooth Pairing Utility	3.29
Camera	2.4.7
Android Webview and Chromium	119.0.6045.163
DataWedge	11.4.505
EMDK	11.0.146.4046
Files	11

License Manager and LicenseMgrService	6.1.3 and 6.2.2.5.0.3
MXMF	13.3.0.2
NFC FW	12.50.9
OEM info	9.0.1.134
OSX	QCT6490.110.11.17.34
Rxlogger	7.0.5.31
Scanning Framework	37.9.36.0
StageNow	11.9.0.1
WLAN	Fusion Version: FUSION_QA_4_1.2.0.026_R FW: 1.1.2.0.1027.4
Zebra Bluetooth	11.8.1
Zebra Volume Control	3.0.0.91
Zebra Data Service	10.0.7.1147
Zebra Device Manager	13.3.0.5
WorryFreeWiFi	WA_A_3_2.0.0.007_R

Revision History

Rev	Description	Date
1.0	Initial release	April 10, 2024