

Release Notes – Zebra Android 11

11-31-21.00-RG-U00-STD-ATH-04 Release (GMS)

Highlights

This Android 11 GMS release 11-31-21.00-RG-U00-STD-ATH-04 covers TC53, TC58, TC73 and TC78 family of products.

Please see device compatibility under Addendum Section for more details.

Software Packages

Package Name	Description
AT_FULL_UPDATE_11-31-21.00-RG-U00-STD-ATH-04.zip	Full package update
ATH_DELTA_UPDATE_11-28-08.00-RG-U00-STD_TO_11-31-21.00-RG-U00-STD.zip	Delta package update from 11-28-08.00-RG-U00-STD to 11-31-21.00-RG-U00-STD release Applicable for TC58 / TC78 SKUs
ATH_DELTA_UPDATE_11-27-16.00-RG-U00-STD_TO_11-31-21.00-RG-U00-STD.zip	Delta package update from 11-27-16.00-RG-U00-STD to 11-31-21.00-RG-U00-STD release Applicable for TC53 / TC73 SKUs

Security Updates

This build is Compliant up to [Android Security Bulletin](#) of **January 01, 2024**

LifeGuard Update 11-31-21.00-RG-U00

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

○ 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.

○ Resolved Issues

- SPR-50862: Resolved an issue wherein wrong APN was shown on Swisscom carrier.
- SPR-51467: Resolved an issue wherein TC27 MTN carrier optimized setting preventing 5G communication.
- SPR-52138: Resolved an issue wherein Verizon OMA-DM server failed to authenticate.
- SPR-51015: Resolved an issue wherein called Id state is getting disabled after accessing caller Id menu for Docomo NTT.
- SPR-51430: Resolved an issue wherein TC58 Reboots in certain location of o2 carrier in UK.
- 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.

○ Usage Notes

- None

LifeGuard Update 11-28-08.00-RG-U00 (Applicable only for TC58 and TC78 SKU's)

- This LG patch is applicable for 11-28-08.00-RG-U00-STD-ATH-04 BSP version.

○ New Features

- **MX 13.1:**
 - Access Manager adds the ability to:
 - Pre-grant, pre-deny or defer to the user access to "Dangerous Permissions."
 - Allow the Android system to automatically control permission to seldom-used apps.
 - 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.
 - Show/hide Immersive Mode pop-up warning.
 - Configure Touch-and-Hold Delay for key long-presses.
 - Wi-Fi adds the ability to:
 - Allow an administrator to select the FTM Intervals, a preference for the frequency of updates to the Fine Timing Measurement Location on a device.
- **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 11-27-16.00-RG-U00 (Applicable only for TC53 and TC73 SKU's)

- This LG patch is applicable for 11-28-08.00-RG-U00-STD-ATH-04 BSP version.

○ **New Features**

- **MX 13.1:**

- Access Manager adds the ability to:
 - Pre-grant, pre-deny or defer to the user access to "Dangerous Permissions."
 - Allow the Android system to automatically control permission to seldom-used apps.
- 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.
- Show/hide Immersive Mode pop-up warning.
- Configure Touch-and-Hold Delay for key long-presses.
- Wi-Fi adds the ability to:
 - Allow an administrator to select the FTM Intervals, a preference for the frequency of updates to the Fine Timing Measurement Location on a device.
- **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-RG-U00

- This LG patch is applicable for 11-25-02.00-RG-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
- SPR-50350 - Resolved an issue where in mobile operator's MNC starting with 0's is getting truncated while adding a private APN.
- SPR50566 - Adjusted acoustic profiles based on the comparison with TC52x volume level to improve the audio throughput.
- SPR-50775 - Added support for N77 SA band on Private 5G Network for Nordics.
- SPR-50357, SPR-50376 - Added support for N77 SA band with 100mhz on Private 5G Network for UK.
- SPR-50233 - Fixed an issue with accelerometer sensor events not coming regularly due to camera interference with the sensor data.
- SPR-50420, SPR-50954 - Fixed modem crash that causes device to reboot.
- 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-RG-U05 (Applicable only for TC58 and TC78 SKUs)

- LifeGuard Update 11-21-27.00-RG-U05-STD-ATH-04 contains security updates only.
- This LG patch is applicable for 11-21-27.00-RG-U00-STD-ATH-04 BSP version.

- **New Features**

- None

- **Resolved Issues**

- None

- **Usage Notes**

- None

LifeGuard Update 11-21-27.00-RG-U03 (Applicable only for TC58 and TC78 SKUs)

- LifeGuard Update 11-21-27.00-RG-U03-STD-ATH-04 contains security updates only.
- This LG patch is applicable for 11-21-27.00-RG-U00-STD-ATH-04 BSP version.

- **New Features**

- None
- **Resolved Issues**
 - None
- **Usage Notes**
 - None

LifeGuard Update 11-21-27.00-RG-U00

- This LG patch is applicable for 11-21-27.00-RG-U00-STD-ATH-04 BSP version.
- **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 MX CSP 11.9 for Incoming/Outgoing call blocking through admin.
 - Added support for Erill Operator in Finland (SPR-48401).
 - Added support for Enabling VoLTE & EVS for Telia operator (SPR47522, SPR47409)
 - Added support for 5G Capability in Reliance MBN in India (SPR-48491).
 - Added support for MX UI CSP Setting RecentApp Button/Home Key/Long Press on Home Key features for Gesture Navigation
- **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.
- **Usage Notes**
 - None

LifeGuard Update 11-20-08.00-RG-U01 (Applicable only for TC58 SKUs)

- LifeGuard Update 11-20-08.00-RG-U01 contains security updates only.
- This LG patch is applicable for 11-20-08.00-RG-U00-STD-ATH-04 BSP version.
- **New Features**
 - None
- **Resolved Issues**

- None

- **Usage Notes**

- None

LifeGuard Update 11-20-08.00-RG-U00 (Applicable only for TC58 SKUs)

➤ This LG patch is applicable for 11-20-08.00-RG-U00-STD-ATH-04 BSP version.

- **New Features**

- None

- **Resolved Issues**

- SPR48093 – Resolved issue where device rebooted when running RxLogger with QXDM logging enabled.

- **Usage Notes**

- None

LifeGuard Update 11-19-15.00-RG-U02 (Applicable only for TC78 SKUs)

➤ LifeGuard Update 11-19-15.00-RG-U01 contains security updates only.

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

- **New Features**

- None

- **Resolved Issues**

- None

- **Usage Notes**

- None

LifeGuard Update 11-19-15.00-RG-U01 (Applicable only for TC78 SKUs)

➤ LifeGuard Update 11-19-15.00-RG-U01 contains security updates only.

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

- **New Features**

- None

- **Resolved Issues**

- None

- **Usage Notes**

- None

LifeGuard Update 11-19-15.00-RG-U00

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

- **New Features**

- Added a 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.

- **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.

- **Usage Notes**

- None

LifeGuard Update 11-17-16.00-RG-U04

- LifeGuard Update 11-17-16.00-RG-U04 contains security updates only.
- This LG patch is applicable for 11-17-16.00-RG-U00-STD-ATH-04 BSP version.

- **New Features**

- None

- **Resolved Issues**

- None

- **Usage Notes**

- None

LifeGuard Update 11-17-16.00-RG-U00

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

- **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

- **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.

- **Usage Notes**

- None.

Version Information

Below Table contains important information on versions

Description	Version
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Product Build Number	11-31-21.00-RG-U00-STD-ATH-04
Android Version	11
Security Patch level	January 01, 2024
Component Versions	Please see Component Versions under Addendum section

Device Support

The products supported in this release are TC53, TC58, TC73 and TC78 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	
TC58	TC58A1-3T1K6B1010-NA TC58A1-3T1K7B1010-NA TC58A1-3T1K6E2A1A-NA TC58A1-3T1K6E2A1B-NA TC58A1-3T1K6E2A8D-NA TC58A1-3T1E4B1010-NA TC58A1-3T1K4B1010-NA TC58A1-3T1E7B1010-NA TC58B1-3T1E4B1080-IN TC58B1-3T1E4B1080-XP TC58J1-3T1E4B1080-TR TC58C1-3T1K6B1080-JP TC58B1-3T1E4B1080-ID TC58B1-3T1E4B1080-TR TC58B1-3T1K6B1080-TR TC58B1-3T1E4B1N80-A6	TC58B1-3T1K6E208E-A6 TC58B1-3T1K7B1080-A6 TC58B1-3T1K6E208C-A6 TC58B1-3T1K6B1080-A6 TC58B1-3T1K6E2A8A-A6 TC58B1-3T1K6E208F-A6 TC58B1-3T1K6E2A8C-A6 TC58B1-3T1K6E2A8E-A6 TC58B1-3T1K6E2A8F-A6 TC58B1-3T1E6B1080-A6 TC58B1-3T1E4B1080-A6 TC58B1-3T1K4B1080-A6 TC58B1-3T1E4B1B80-A6 TC58B1-3T1E6B1W80-A6 TC58B1-3T1K6E2W8A-A6 TC58B1-3T1E4B1N80-A6	TC58
TC78	TC78A1-3T1J4B1A10-NA TC78B1-3T1J4B1A80-A6 TC78B1-3T1K4B1A80-A6 TC78A1-3T1J6B1A10-NA TC78B1-3T1J6B1A80-A6 TC78A1-3T1K6B1A10-NA	TC78B1-3T1K6B1A80-A6 TC78A1-3T1K6B1G10-NA TC78A1-3T1K6B1E10-NA TC78A1-3T1K6B1B10-NA TC78A1-3T1K4B1A10-NA TC78B1-3T1K6B1B80-A6 TC78B1-3T1K6B1E80-A6	TC78
TC53	TC5301-0T1E4B1000-NA TC5301-0T1K6E200D-NA TC5301-0T1K4B1000-NA TC5301-0T1K6B1000-NA TC5301-0T1K7B1000-NA TC5301-0T1K6E200A-NA TC5301-0T1K6E200B-NA TC5301-0T1K7B1B00-NA TC5301-0T1E7B1000-NA TC5301-0T1E4B1000-IN TC5301-0T1E4B1000-XP	TC5301-0T1E4B1000-A6 TC5301-0T1K6E200F-A6 TC5301-0T1K6E200A-A6 TC5301-0T1K6E200E-A6 TC5301-0T1K6E200C-A6 TC5301-0T1K7B1000-A6 TC5301-0T1K6B1000-A6 TC5301-0T1K6B1000-A6 TC5301-0T1K4B1000-A6 TC5301-0T1E4B1000-TR TC5301-0T1K6B1000-TR	TC53
TC73	TC7301-0T1J4B1000-A6 TC7301-0T1J4B1000-NA TC7301-0T1K4B1000-A6 TC7301-0T1K4B1000-NA	TC7301-0T1K6E200A-A6 TC7301-0T1K6E200A-NA TC7301-0T1J4B1000-TR TC7301-0T1K4B1000-TR	TC73

Component Versions

Component / Description	Version
Linux Kernel	5.4.254-qgki
AnalyticsMgr	10.0.0.1002
Android SDK Level	30
Android Webview	119.0.6045.193
Audio (Microphone and Speaker)	0.18.0.0
Battery Manager	1.4.80.00
Bluetooth Pairing Utility	3.29
Camera	2.3.6
DataWedge	11.4.310
EMDK	11.0.141.4041
Files	aml_doc_310851020
Google Chrome	119.0.6045.193
License Manager and LicenseMgrService	6.1.1 and 6.1.7
MXMF	13.1.0.14
NFC FW	12.50.9
OEM info	9.0.0.828
OSX	QCT6490.110.11.10.30
Rxlogger	7.0.5.31
Scanning Framework	37.9.25.0
StageNow	11.9.0.1
WLAN	Fusion Version: FUSION_QA_4_1.2.0.023_R FW: 1.1.2.0.1027.4
Zebra Bluetooth	11.8.1
Zebra Volume Control	3.0.0.91
Zebra Data Service	10.0.4.1263

Zebra Device Manager	13.1.0.25
WorryFreeWiFi	WA_A_3_1.1.0.024_R
Wireless Analyzer	3.2.13

Revision History

Rev	Description	Date
1.0	Initial release	February 19, 2024