Release Notes – Zebra Android 14
14-28-03.00-UN-U60-STD-ATH-04 (NGMS)

Highlights

This Android 14 AOSP release 14-28-03.00-UN-U60-STD-ATH-04 is the official release on Android 14, supporting TC53, TC73, TC22, HC20, HC50, TC27, ET60, TC58 devices. Please see device compatibility under Addendum Section for more details.

This release requires a mandatory step OS Update method to upgrade to A14 BSP software from A11. Please refer for more details under "**OS Update Installation Requirements and Instructions**" section.

For devices TC22, TC27, HC20, HC50, HC25 and HC55 when upgrading from Android 13 to Android 14 OS it is mandatory to first install March 2025 Android 13 LifeGuard release (13-39-18) or higher, before proceeding with any updates to the Android 14 OS.

Software Packages

Package Name	Description
AT_FULL_UPDATE_14-28-03.00-UN-U60-STD-ATH-04 .zip	Full package update
AT_DELTA_UPDATE_14-28-03.00-UN-U42-STD_TO_14-28-03.00-UN-U60-STD.zip	Delta package update from 14-28-03.00-UN-U42-STD_TO_14-28-03.00-UN-U60-STD.zip Applicable for: TC53, TC73, TC22, HC20, HC50, TC27, ET60, TC58,KC50

Security Updates

This build is compliant up to Android Security Bulletin of June 01, 2025.

LifeGuard Update 14-28-03.00-UG-U60

➢ Adds Security updates to be compliant with Android Security Bulletin of June 01, 2025.

- o **New Features**
  - • Workstation Connect is now supported on this release, for details on compatibility please check workstation-connect

- o **Resolved Issues**

- SPR-56634 - Notification Pulldown is not longer Allowed in PowerKeyMenu when MX feature is disabled.
- SPR-56181 / SPR-56534- Add custom CSP feature to enable Telephony Manager on WLAN devices.
- SPR-55368 - Resolved issue where DPR setting from StageNow did not match value in Settings UI.
- SPR-55240 - Resolved an issue wherein the RFD90 RFID reader sometimes does not connect with the host device with USB-CIO connection via the e-Connex interface.

- **Usage Notes**

LifeGuard Update 14-28-03.00-UG-U42

- ➢ Adds Security updates to be compliant with Android Security Bulletin of May 01, 2025.
- ➢ For devices TC22, TC27, HC20, HC50, HC25 and HC55, it is mandatory to first install March 2025 Android 13 LifeGuard release (13-39-18) before proceeding with any updates to the Android 14 OS.

- **New Features**

- **Resolved Issues**

- **Usage Notes**

LifeGuard Update 14-28-03.00-UN-U00

- ➢ Adds Security updates to be compliant with Android Security Bulletin of April 01, 2025.

- ➢ For devices TC22, TC27, HC20, HC50, HC25 and HC55, it is mandatory to first install March 2025 Android 13 LifeGuard release (13-39-18) before proceeding with any updates to the Android 14 OS.

- **New Features**

  - Initial A14 release for KC50, EM45, HC25 & HC55 products.

- **Resolved Issues**

  - SPR-55240 -Kernel changes in spoc_detection and MSM USB HS PHY driver to handle USB device enumeration failure when attached in suspend mode. Changes include increasing the debounce delay and handling the suspend case in USB PHY driver for handling the USB device enumeration along with the SPR-55240 use case of USB-CIO connection issue with RFD90 via eConnex interface.

- **Usage Notes**

LifeGuard Update 14-20-14.00-UN-U198

Adds Security updates to be compliant with Android Security Bulletin of March 01, 2025.

- o **New Features**

- o **Resolved Issues**

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- o **Usage Notes**

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LifeGuard Update 14-20-14.00-UN-U160

Adds Security updates to be compliant with Android Security Bulletin of February 01, 2025.

- o **New Features**

- o **Resolved Issues**

  - SPR-54688 – Fixed an issue where sometimes orientation of locked screen not persisting.

- o **Usage Notes**

  - Due to new mandatory privacy requirements from Google, the Setup Wizard Bypass feature has been discontinued on devices running Android 13 and later. Consequently, it is now restricted to skip the Setup Wizard screen, and the StageNow barcode will not function during the Setup Wizard, displaying a toast message stating "Not supported."
  - If the Setup Wizard has already been completed and its data was configured to persist on the device in the past, there is no need to repeat this process following an Enterprise Reset.
  - For more details, please refer to the Zebra FAQ documentation: https://techdocs.zebra.com/zebradna/latest/faq/#setupwizardsuw

LifeGuard Update 14-20-14.00-UN-U116

Adds Security updates to be compliant with Android Security Bulletin of January 01, 2025.

- o **New Features**

- o **Resolved Issues**

- o **Usage Notes**
  - None

LifeGuard Update 14-20-14.00-UN-U110

Adds Security updates to be compliant with Android Security Bulletin of January 01, 2025.

- **New Features**

- **Resolved Issues**

- **Usage Notes**
  - None

LifeGuard Update 14-20-14.00-UN-U87

- **New Features**
  - **Camera:**
    - Added support for camera driver for new 16MP rear camera module on TC53,TC58,TC73,TC78,ET60 & ET65 products.

- **Resolved Issues**
  - SPR54815 - Resolved an issue where in DWDemo issue with sending barcode data containing embedded TAB characters.
  - SPR-54744 – Resolved an issue where in sometimes FFDservice feature was not working.
  - SPR-54771 / SPR-54518 - Resolved an issue where in sometimes when device battery is critically low device stuck in boot screen.

- **Usage Notes**
  - Devices with the new camera module <u>cannot</u> be downgraded – the minimum build requirement is 14-20-14.00-UN-U160-STD-ATH-04 on A14 or newer.
  - To identify the new camera type user can check 'ro.boot.device.cam_vcm' using getprop from the adb. Only new camera devices will have the below property: ro.boot.device.cam_vcm=86021

LifeGuard Update 14-20-14.00-UN-U57

- **New Features**
  - Added a new feature for the device microphone, which controls audio input through connected audio device
  - Added support for WLAN TLS1.3

- **Resolved Issues**

- SPR-54154 – Resolved an issue where in resetting the pending event flag to avoid radio power cycling loop

- **Usage Notes**
  - None

LifeGuard Update 14-20-14.00-UN-U45

- **New Features**
  - FOTA:
    - Incremental software release with optimization and improvements for A14 OS support.
  - Zebra Camera App:
    - Added 720p picture resolution.
  - Scanner Framework 43.13.1.0:
    - Integrated latest Oboe Framework library 1.9.x
  - Wireless Analyser:
    - Stability fixes under Ping, Coverage View, disconnect scenarios while running Roam/Voice.
    - Added a new feature in Scan List to display the Cisco AP Name.

- **Resolved Issues**
  - SPR54043 – Resolved an issue where in scanner changes, Active Index should not be reset if clear submit failed.
  - SPR-53808 – Resolved an issue where in few devices were unable to scan enhanced dot data matrix labels consistently.
  - SPR54264 – Resolved an issue where in snap on trigger not working when DS3678 is connected.
  - SPR-54026 – Resolved an issue where in EMDK Barcode parameters for 2D inverse.
  - SPR 53586 - Resolved an issue where in battery draining was observed on few devices with external keyboard.

- **Usage Notes**
  - None

LifeGuard Update 14-20-14.00-UN-U11

- **New Features**

- Added a Allows User to select a portion of available device storage to be used as system RAM. This feature can be turned ON/OFF from device admin only. Please refer to https://techdocs.zebra.com/mx/powermgr/ for more details

- **Scanner Framework 43.0.7.0**

  - FS40 (SSI Mode) Scanner Support with DataWedge.

  - Enhanced Scanning performance with SE55/SE58 Scan Engines.

  - Added support for RegEx checking in Free-Form OCR and Picklist + OCR Workflows.

- **Resolved Issues**
  - SPR-54342 – Fixed an issue where NotificationMgr feature support has been added which was not working.
  - SPR-54018 – Fixed an issue where Switch param API is not working as expected when hardware trigger is disabled.
  - SPR-53612 / SPR-53548 - Resolved an issue wherein a random double decode occurred
  - while using the physical scan buttons on TC22/TC27 and HC20/HC50 devices.
  - SPR-53784 - Resolved an issue wherein chrome changes tabs while using L1 and R1 Keycode.

- **Usage Notes**
  - None

LifeGuard Update 14-20-14.00-UN-U00

- **New Features**

  - Added a new feature to read EMMC flash data via EMMC app and adb shell.

  - Wireless Analyzer(WA_A_3_2.1.0.006_U):

    - A full-functional real-time WiFi Analysis and troubleshooting tool to help analyze and resolve WiFi issues from a mobile device standpoint.

- **Resolved Issues**
  - SPR-53899: Resolved an issue where all application permissions were accessible to the user in System restricted with Reduced Accessibility.
  - SPR 53388: Firmware Update for SE55 (PAAFNS00-001-R09) Scan Engine with Critical bug fixes, and performance enhancements. This update is highly recommended.

- **Usage Notes**

- None

LifeGuard Update 14-18-19.00-UN-U00

- ○ **New Features**

  - The Hotseat home screen "**Phone**" icon has been replaced by the "**Files**" icon (For Wi-Fi-only devices).
  - Added support for **Camera Stats** 1.0.3.
  - Added support for **Zebra Camera App Admin control**.
  - Added support for **DHCP Option** 119. (DHCP option 119 would work only on managed devices over WLAN only and WLAN profile should be created by device owner)
  - **MXMF:**
    - ○ DevAdmin adds the ability to control Android Lock Screen visibility on the remote console if the Lock Screen appears on a device while being remotely controlled.
    - ○ Display Manager adds the ability to select screen resolution on the secondary display when a device is connected to an external monitor through a Zebra Workstation Cradle.
    - ○ UI Manager adds the ability to control whether to display the remote-control icon in the Status Bar when the device is being remotely controlled or viewed.
  - **DataWedge :**
    - ○ Support has been added to enable and disable decoders, such as US4State and other Postal decoders, in the Free-Form Image Capture Workflow and other workflows where applicable.
    - ○ New Point & Shoot feature: 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.
  - **Scanning:**
    - ○ Added support for improved Camera scanning.
    - ○ Updated SE55 firmware with R07 version.
    - ○ Enhancements on Picklist + OCR allow capture of barcode or OCR by centering the desired target with the aiming crosshair/dot (Supports Camera and Integrated Scan Engines).
    - ○ Enhancements on OCR also includes:
      - Text Structure: ability to capture a Single Line of text and the initial release of a single word.
      - Report Barcode Data Rules: ability to set rules for which barcodes to capture and report.
      - Picklist Mode: ability to allow for Barcode or OCR, or limit to OCR only, or Barcode Only.
      - Decoders: ability to capture any of Zebra supported decoders, previously only the default barcodes were supported.
    - ○ Added support for postal codes (via camera or imager) in
      - Free-Form Image Capture (workflow Input) – Barcode Highlighting/Reporting
      - Barcode highlighting (Barcode Input).
        Postal Codes: US PostNet, US Planet, UK Postal, Japanese Postal, Australia Post, US4state FICS, US4state, Mailmark, Canadian postal, Dutch Postal, Finish Postal 4S.
    - ○ Updated version of Decoder library IMGKIT_9.02T01.27_03 is added.
    - ○ New Configurable Focus Parameters offered for devices with SE55 Scan Engine.

Version Information

Below Table contains essential information on versions

Description	Version
Product Build Number	14-28-03.00-UN-U60-STD-ATH-04
Android Version	14
Security Patch level	June 01, 2025
Component Versions	Please see Component Versions under Addendum section

Device Support

This release supports TC53/TC22/TC27/TC73/TC58/HC20/HC50/HC25/HC55 and ET60 only. Please refer to the addendum for more details on the part numbers supported in this release.

OS Update Installation Requirements and Instructions

➢ For devices TC53, TC73 to update from A11 to this A14 release, user must follow below steps:

- **Step-1**: Device **MUST** have A11 May 2023 LG BSP Image **11-21-27.00-RG-U00-STD** version or a greater A11 BSP version installed which is available on zebra.com portal.

- **Step-2**: Upgrade to this release A14 BSP version **14-28-03.00-UN-U00-STD-ATH-04**. For more detailed instructions refer A14 6490 OS update instructions

- For devices TC53, TC73 and ET60 to update from A13 to this A14 release, user must follow below steps:

- **Step-1**: Device must have Android 13 September LifeGuard release (13-33-18) or higher version installed which is available on zebra.com portal.

- **Step-2**: Upgrade to this release A14 BSP version **14-28-03.00-UN-U00-STD-ATH-04**. For more detailed instructions refer A14 6490 OS update instructions .

- For devices TC22, TC27, HC20, HC50, HC25 and HC55 to update from A13 to this A14 release, user must follow below steps:

- **Step-1**: It is mandatory to first install March 2025 Android 13 LifeGuard release (13-39-18) or newer before proceeding with any updates to the Android 14 OS, which is available on zebra.com portal.

- **Step-2**: Upgrade to this release A14 BSP version **14-28-03.00-UN-U00-STD-ATH-04**. For more detailed instructions refer A14 6490 OS update instructions .

Known Constraint

- Limitation of Battery Stats in COPE mode.
- System settings access (Access Manager) - Reduced settings with Accessibility allow users to access application permissions, using Privacy Indicators.
- On devices running **Android 14**:
  - If an on-docking app behaviors are configured with five or more apps and the device is continuously docked and undocked, a fully black or half-black screen might be displayed on the primary device.
  - **REMEDY**:
    - Fully black screen: Reboot the device
    - Half-black screen: Clear apps from the recent apps list on the primary device or reboot

Important Links

- Installation and setup instructions – please refer to the links below.

  - A14 6490 OS update instructions
  - 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	TC5301-0T2E4B1000-CN	TC53
HC20	WLMT0-H20A6BCJ1-CN		HC20
HC50	WLMT0-H50C8BBK1-CN		HC50
TC22	WLMT0-T22A6ABC2-CN	WLMT0-T22A8ABD8-CN	TC22
TC27	WCMTC-T27A6ABC2-CN	WCMTC-T27A8ABC8-CN	TC27

ET60	ET60AW-0SQAAS00A0-CN ET60AW-0SQAASK0A0-CN	ET60AW-0SQAAN00A0-CN ET60AW-0HQAAN00A0-CN	ET60
HC25	WCMTC-H25A6BCJ1-CN		HC25
HC55	WCMTC-H55C8BBK1-CN		HC55
TC73	TC7301-0T2J4B1000-CN	TC7301-0T2K4B1000-CN	TC73
TC58	TC58C1-1T2E4B1080-CN		TC58

Component Versions

Component / Description	Version
Linux Kernel	5.4.281-qgki
AnalyticsMgr	10.0.0.1008
Android SDK Level	34
Android Web View	113.0.5672.136
Audio (Microphone and Speaker)	0.13.0.0
Battery Manager	1.5.4
Bluetooth Pairing Utility	6.3
Chromium	86.0.4189.0
Zebra Camera App	2.5.15
Snapdragon Camera (KC50 only)	2.04.102
DataWedge	15.0.33
Files	14-11531109
License Manager and LicenseMgrService	6.1.4 and 6.3.9
MXMF	14.2.0.13
NFC	PN7160_AR_14.01.00
OEM info	9.0.1.257
OSX	QCT6490.140.14.12.9

Rxlogger	14.0.12.22
Scanning Framework	43.33.10.0
StageNow	13.4.0.0
Zebra Device Manager	14.1.0.13
WLAN	FUSION_QA_4_1.3.0.011_U FW: 1.1.2.0.1317.3
WWAN Baseband version	Z250328B_094.1a-00258
Zebra Bluetooth	14.8.0
Zebra Volume Control	3.0.0.111
Zebra Data Service	14.0.0.1032
Wireless Analyzer	WA_A_3_2.2.0.006_U

Revision History

Rev	Description	Date
1.0	Initial release	June 5, 2025