Release Notes – Zebra Android 13
13-20-02.00-TG-U01-STD-HEL-04 Release (GMS)

Highlights

This Android 13 GMS release covers MC20, RZ-H271, TC52AX, TC52AX HC, CC600, CC6000, TC21, TC21 HC, TC26, TC26 HC, TC52, TC52 HC, TC52x, TC52x HC, TC57, TC57x, TC72, TC77 & WT6300 family of products.

Starting at Android 11, Delta Updates must be installed in sequential order (ascending oldest to newest); Update Package List (UPL) is no longer a supported method. In place of installing multiple sequential Deltas, a Full Update can be used to jump to any available LifeGuard Update.

LifeGuard patches are sequential and include all previous fixes that are part of earlier patch releases.

Please see, device compatibility under Addendum Section for more details.

AVOID DATA LOSS WHEN UPDATING TO ANDROID 13
Read Migrating to Android 13 on TechDocs

Software Packages

Package Name	Description
HE_FULL_UPDATE_13-20-02.00-TG-U01-STD-HEL-04.zip	Full package update
HE_DELTA_UPDATE_13-20-02.00-TG-U00-STD_TO_13-20-02.00-TG-U01-STD.zip	Delta package from previous release 13-20-02.00-TG-U00-STD
Releasekey_Android13_EnterpriseReset_V2.zip	Reset Package to Erase User Data Partition Only
Releasekey_Android13_FactoryReset_V2.zip	Reset Package to Erase User Data and Enterprise Partitions

Zebra Conversion Package for migrating to Android 13 without data loss.

Current Source OS Versions present on device			Zebra Conversion Package to be used	Notes
OS Dessert	Release Date	Build Version		
Oreo	Any Oreo release	Any Oreo release	11-99-99.00-RG-U500-STD-HEL-04	Android Oreo - For devices with LG version earlier than 01-23-18.00-OG-U15-STD, the device must be upgraded to this version or newer prior to beginning the migration process.

Pie	Any Pie release	Any Pie release	11-99-99.00-RG-U500-STD-HEL-04	For Android Pie, the device must be upgraded to Android 10 or 11 to begin the migration process.
A10	Any A10 release	Any A10 release	11-99-99.00-RG-U500-STD-HEL-04	
A11	Till Aug 2023 release	Till LIFEGUARD UPDATE 11-38-02.00-RG-U00	11-99-99.00-RG-U500-STD-HEL-04	

Security Updates

This build is Compliant up to Android Security Bulletin of September 05, 2023.

LifeGuard Update 13-20-02.00-TG-U01

➢ LifeGuard Update 13-20-02.00-TG-U01 contains security updates, bug fixes and SPRs.

➢ This LG Delta Update package is applicable for 13-20-02.00-TG-U00-STD-HEL-04 BSP version.

- o **New Features**
  - • None

- o **Resolved Issues**
  - • None

- o **Usage Notes**
  - • None

LifeGuard Update 13-20-02.00-TG-U00

➢ LifeGuard Update 13-20-02.00-TG-U00 contains security updates, bug fixes and SPRs.

➢ This LG Delta Update package is applicable for 13-18-19.00-TG-U00-STD-HEL-04 BSP version.

- o **New Features**
  - • Added Apple VAS feature support for selected TC21, TC26 SKUs.
  - • Added support for Admin to control BT scanner parameters Reconnect Timeout, Wi-Fi-friendly channel exclusion, and Radio Output Power for remote Scanners RS5100 and Zebra Generic BT scanners.

- o **Resolved Issues**
  - • SPR50649 - Resolved an issue wherein decoded data was not received by the app via intent.
  - • SPR50931 - Resolved an issue wherein OCR data was not formatted when keystroke output was selected.
  - • SPR50645 - Resolved an issue wherein device would report charging slowly.
  - • SPR48783 - Battery charging current was tuned for TC52ax, TC52, TC52x-HC device SKUs.

- o **Usage Notes**

- None

Update 13-18-19.00-TG-U00

New Features

- In A13, data encryption method is changed from full disk (FDE) to file based (FBE).
- Zebra Charging Manager new feature is added in Battery Manger App to improve battery Life.
- RxLogger new features includes - Additional WWAN dumpsys commands and Configurable logcat buffer size through RxLogger settings.
- Worry-free Wi-Fi is now renamed as Wireless Analyzer.
- Wireless Analyzer supports 11ax scan list feature, FT_Over_DS feature, 6E Support to add (RNR, Multi-BSSID) in Scan list and FTM API integration with Wireless Insight.
- In A13 Stagenow JS Barcode support is added .XML Barcode will not be Supported by Stagenow in A13.
- DDT New release will have new package name. Old package name support will be discontinued after some time. Older version of DDT must be uninstalled, and newer version should be installed.
- In A13 Quick setting UI has changed.
- In A13 Quick setting UI QR scanner code option is available.
- In A13 Files app is replaced by Google Files App.
- 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.

Resolved Issues

- SPR48592 Resolved an issue with EHS crashing.

- SPR47645 Resolved an issue with EHS suddenly disappears, and Quickstep shows up.

- SPR47643 Resolved an issue with Rescue Party screen during Wi-Fi ping test.

- SPR48005 Resolved an issue with StageNow - the string length of Passphrase WPAClear is too long when using \\ for \ in passphrase.

- SPR48045 Resolved an issue with MX not able to use HostMgr Hostname.

- SPR47573 Resolved an issue with Short Press should not open Power Menu

- SPR46586 Resolved an issue with EHS Unable to set EHS as default Launcher with StageNow

- SPR46516 Resolved an issue with Audio Settings Do Not Persist upon Enterprise Reset

- SPR45794 Resolved an issue with Selecting\changing Audio Profiles does not set volume to preset levels.

- SPR48519 Resolved an issue with Clear Recent Apps MX Failing.

- SPR48051 Resolved an issue with StageNow where FileMgr CSP not working.

- SPR47994 Resolved an issue with Slower to update the tile name at every reboot.

- SPR46408 Resolved an issue with Stagenow Not showing downloading pop up when downloading os update file from custom ftp server.

- SPR47949 Resolved an issue with Clearing recent apps is opening Quickstep launcher instead in EHS.

- SPR46971 Resolved an issue with EHS Auto launch app list is not preserved when EHS configuration is saved from EHS GUI

- SPR47751 Resolved an issue with Default Launcher Problem setting when device has blacklisted com.android.settings applied
- SPR48241 Resolved an issue with System UI crash with MobileIron's DPC launcher.
- SPR47916 Resolved an issue with OTA Download through Mobile Iron (using Android Download Manager) Fails in 1Mbps network speed.
- SPR48007 Resolved an issue with Diag daemon at RxLogger increases its consumption memory.
- SPR46220 Resolved an issue with BTSnoop log module inconsistency in generating CFA logs.
- SPR48371 Resolved an issue with SWAP battery - the device doesn't restart - Power on doesn't run after swapping.
- SPR47081 Resolved an issue with Fixing a timing issue with USB during suspend/resume.
- SPR50016 Resolved an issue with gnss engine stays in locked state.
- SPR48481 Resolved an issue with Wi-Fi beacon miss issue between Device and WAP.
- SPR50133/50344 Resolved an issue with Device entering Rescue Party mode randomly.
- SPR50256 Resolved an issue with Mexico Daylight Savings Changes
- SPR48526 Resolved an issue with Device Freezing randomly.
- SPR48817 Resolved an issue with Auto shutdown disabled in TestDPC Kiosk.
- Integrated Mandatory Functional Patch from Google Description: A-274147456 Revert intent filter matching enforcement.

Usage Notes

Existing customers can upgrade to A13 with data persistence using one of the following methods.

   a) Using FDE-FBE conversion package (FDE-FBE conversion package)
   b) Using EMM enterprise persistence (AirWatch, SOTI)

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	13-20-02.00-TG-U01-STD-HEL-04
Android Version	13
Security Patch level	September 05, 2023
Component Versions	Please see Component Versions under Addendum section

Device Support

Please see device compatibility details under Addendum Section.

Known Constraints

- Dessert Upgrade to A13 will have Enterprise reset because of Encryption change from FDE to FBE.
- Customers who upgrade from A10/A11 to A13 without FDE-FBE conversion package or EMM persistence will result in data wipe.
- Dessert upgrade from A10, A11 to A13 can be done with UPL with reset command. Oreo reset command is not supported.
- This software is not applicable for TC52X-HC and TC52AX-HC.
- DHCP Option 119 & Auto PAC Proxy feature is currently not supported in this release. Zebra is working on enabling these 2 features in future Android 13 releases.
- Workstation Connect Not supported in this Release.
- SPR47380 OS level exception caused by the initialization of an NFC internal component, resulting in the crash log present upon reboot. After the OS exception, the NFC chip retries the initialization, and it is successful. There is no functionality loss.
- SPR48869 MX - CurrentProfileAction set to 3 and Turning off DND. This will be fixed in upcoming A13 releases.
- Scanner and keypad volume restrictions are not persisted after A13 upgrade. This is restriction is only for May A11 LG. Fix for this issue will be available in upcoming conversion package.
- Staging via NFC is not supported.
- EMM supporting persistence feature (primarily Airwatch/SOTI) will only work while migrating from A11 to A13.

Important Links

- SDM660 A13 OS Update instructions
- FDE-FBE conversion package
- 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
MC20	MC200A-GA2S40JP		MC20 Home Page
RZ-H271	RZ-H271		MC20 Home Page
TC52AX	TC520L-1YFMU7P-NA TC520L-1YFMU7T-NA TC520L-1YLMU7T-NA	TC520L-1YFMU7P-A6 TC520L-1YFMU7T-A6 TC520L-1YLMU7T-A6	TC52ax Home Page
TC52AX HC	TC520L-1HCMH7T-NA TC520L-1HCMH7P-NA	TC520L-1HCMH7T-A6 TC520L-1HCMH7P-A6	TC52ax Home Page

	TC520L-1HCMH7P-FT	TC520L-1HCMH7T-FT	
CC600	CC600-5-3200LNNA CC600-5-3200LNWW	CC600-5-3200LNIN	CC600 Home Page
CC6000	CC6000-10-3200LCWW CC6000-10-3200PCWW CC6000-10-3200LCNA CC6000-10-320NLCNA	CC6000-10-3200PCNA CC6000-10-3200LNNA CC6000-10-320NLCWW	CC600 Home Page
TC21	TC210K-01A222-A6 TC210K-01A242-A6 TC210K-01D221-A6 TC210K-01D241-A6 TC210K-01B212-A6 TC210K-01B232-A6 TC210K-01A422-A6 TC210K-01A442-A6 TC210K-0HD224-A6 TC210K-0HB224-A6 TC210K-0HB222-A6 TC210K-01A423-A6 TC210K-0JB224-A6 TC210K-01B422-NA TC210K-01A222-NA TC210K-01D221-NA TC210K-01D241-NA TC210K-0JD224-NA TC210K-0JB224-NA TC210K-01A242-NA TC210K-01A442-NA TC210K-01B212-NA TC210K-01B232-NA	TC210K-01A423-NA TC210K-0HD224-NA TC210K-0HB224-NA TC210K-0HB222-NA TC210K-01A422-NA TC210K-0HB224-IA TC210K-01A222-IA TC210K-01A242-IA TC210K-01A442-IA TC210K-01A422-IA TC210K-01B212-IA TC210K-01B232-IA TC210K-01A423-IA TC210K-01B232-TR TC210K-01B212-TR TC210K-01D221-TR TC210K-01D241-TR TC210K-0HD224-FT TC210K-01B212-XP TC210K-01A522-A6P TC210K-01A522-NAP	TC21 Home Page
TC21 HC	TC210K-0HD224-NA KT-TC210K-0HD224-FT TC210K-0HD224-A6 TC210K-0HB224-A6 TC210K-0JB224-A6 TC210K-0JD224-NA TC210K-0JB224-NA TC210K-0HB224-NA TC210K-0HB222-NA TC210K-0HB224-IA TC210K-0HB222-NA KT-TC210K-0HD224-PTTP1-NA KT-TC210K-0HD224-PTTP2-NA KT-TC210K-0HD224-PTTP1-FT KT-TC210K-0HD224-PTTP2-FT KT-TC210K-0HD224-	KT-TC210K-0HB224-PTTP1-A6 KT-TC210K-0HB224-PTTP2-A6 KT-TC210K-0HD224-WFC1-NA KT-TC210K-0HD224-WFC2-NA KT-TC210K-0HD224-WFC1-FT KT-TC210K-0HD224-WFC2-FT KT-TC210K-0HD224-WFC1-A6 KT-TC210K-0HD224-WFC2-A6 KT-TC210K-0HB224-WFC1-A6 KT-TC210K-0HB224-WFC2-A6	TC21 Home Page

	PTTP1-A6 KT-TC210K-0HD224- PTTP2-A6		
TC26	TC26BK-11A222-A6 TC26BK-11A242-A6 TC26BK-11A422-A6 TC26BK-11A423-A6 TC26BK-11A442-A6 TC26BK-11B212-A6 TC26BK-11B232-A6 TC26BK-11B412-A6 TC26BK-11D221-A6 TC26BK-11D241-A6 TC26BK-11D421-A6 TC26BK-21D221-A6 TC26BK-21A222-A6 TC26BK-1HB224-A6 TC26BK-1HD224-A6 TC26BK-1JB224-A6 TC26BK-21A442-A6 TC26AK-11A222-NA TC26AK-11A242-NA TC26AK-11A422-NA TC26AK-11A423-NA TC26AK-11B212-NA TC26AK-11B232-NA TC26AK-11D221-NA TC26AK-11D241-NA TC26AK-1HB222-NA TC26AK-1HB224-NA TC26AK-1HD224-NA TC26AK-1JD224-NA TC26AK-21A222-NA TC26AK-1JB224-NA	TC26AK-11A442-NA TC26BK-11A222-IA TC26BK-11A242-IA TC26BK-11A442-IA TC26BK-11B212-IA TC26BK-11B232-IA TC26BK-21A222-IA TC26BK-1HB224-IA TC26BK-11D221-IA TC26BK-11A222-BR TC26BK-11A242-BR TC26BK-11A422-BR TC26BK-11A423-BR TC26BK-11A442-BR TC26BK-11B212-BR TC26BK-11B232-BR TC26BK-11D221-BR TC26BK-11D241-BR TC26BK-1HB224-BR TC26DK-11B212-TR TC26DK-11B232-TR TC26BK-11B212-TR TC26BK-11B232-TR TC26BK-11B212-ID TC26BK-11A222-ID TC26BK-11B212-XP TC26AK-1HD224-FT TC26AK-11A522-NAP TC26BK-11A522-A6P TC26EK-21A522-NAP	TC26 Home Page
TC26 HC	TC26BK-1HD224-A6 TC26BK-1HB224-A6 TC26BK-1HB224-BR TC26AK-1HD222-NA TC26BK-1HB224-IA TC26AK-1JB224-NA TC26BK-1JB224-A6 TC26AK-1HD224-NA TC26AK-1HB224-NA KT-TC26AK-1HD224-FT TC26AK-1HB222-NA TC26AK-1JD224-NA KT-TC26BK-1HD224- PTTP1-A6 KT-TC26BK-1HD224- PTTP2-A6 KT-TC26BK-1HB224- PTTP1-A6	KT-TC26AK-1HD224- PTTP2-NA KT-TC26AK-1HD224- PTTP1-FT KT-TC26AK-1HD224- PTTP2-FT KT-TC26AK-1HD224- WFC1-NA KT-TC26AK-1HD224- WFC2-NA KT-TC26AK-1HD224- WFC1-FT KT-TC26AK-1HD224- WFC2-FT KT-TC26BK-1HD224- WFC1-A6 KT-TC26BK-1HD224- WFC2-A6	TC26 Home Page

	KT-TC26BK-1HB224-PTTP2-A6 KT-TC26AK-1HD224-PTTP1-NA	KT-TC26BK-1HB224-WFC1-A6 KT-TC26BK-1HB224-WFC2-A6	
TC52	TC520K-1PEZU4P-A6 TC520K-1PEZU4P-NA	TC520K-1PEZU4P-IA TC520K-1PEZU4P-FT	TC52 Home Page
TC52 – AR1337 Camera	TC520K-1PFZU4P-A6	TC520K-1PFZU4P-NA	TC52 Home Page
TC52 HC	TC520K-1HEZU4P-NA TC520K-1HEZU4P-EA TC520K-1HEZU4P-A6 TC520K-1HEZU4P-FT TC520K-1HEZU4P-IA KT-TC520K-1HCMH6P-PTT1-NA KT-TC520K-1HCMH6P-PTT2-NA KT-TC520K-1HCMH6P-PTT1-FT KT-TC520K-1HCMH6P-PTT2-FT KT-TC520K-1HCMH6P-PTT1-A6 KT-TC520K-1HCMH6P-PTT2-A6 KT-TC520K-1HEZU4P-PTT1-NA KT-TC520K-1HEZU4P-PTT2-NA	KT-TC520K-1HEZU4P-PTT1-FT KT-TC520K-1HEZU4P-PTT2-FT KT-TC520K-1HEZU4P-PTT1-A6 KT-TC520K-1HEZU4P-PTT2-A6 KT-TC520K-1HEZU4P-WFC1-NA KT-TC520K-1HEZU4P-WFC2-NA KT-TC520K-1HEZU4P-WFC1-FT KT-TC520K-1HEZU4P-WFC2-FT KT-TC520K-1HEZU4P-WFC1-A6 KT-TC520K-1HEZU4P-WFC2-A6 KT-TC52-1HEZWFC1-NA	TC52 HC Home Page
TC52x	TC520K-1XFMU6P-NA TC520K-1XFMU6P-A6 TC520K-1XFMU6P-TK	TC520K-1XFMU6P-FT TC520K-1XFMU6P-IA	TC52x Home Page
TC52x HC	TC520K-1HCMH6P-NA TC520K-1HCMH6P-FT TC520K-1HCMH6P-A6 TC520K-1HCMH6P-PTTP1-NA TC520K-1HCMH6P-PTTP2-NA TC520K-1HCMH6P-PTTP1-FT TC520K-1HCMH6P-PTTP2-FT TC520K-1HCMH6P-PTTP1-A6	TC520K-1HCMH6P-PTTP2-A6 TC520K-1HCMH6P-WFC1-NA TC520K-1HCMH6P-WFC2-NA TC520K-1HCMH6P-WFC1-FT TC520K-1HCMH6P-WFC2-FT TC520K-1HCMH6P-WFC1-A6 TC520K-1HCMH6P-WFC2-A6 KT-TC52X-1HCMWFC1-NA	TC52x Home Page

TC57	TC57HO-1PEZU4P-A6 TC57HO-1PEZU4P-IA TC57HO-1PEZU4P-NA TC57HO-1PEZU4P-XP	TC57HO-1PEZU4P-BR TC57HO-1PEZU4P-ID TC57HO-1PEZU4P-FT	TC57 Home Page
TC57 – AR1337 Camera	TC57HO-1PFZU4P-A6	TC57HO-1PFZU4P-NA	TC57 Home Page
TC57x	TC57HO-1XFMU6P-A6 TC57HO-1XFMU6P-BR TC57HO-1XFMU6P-IA TC57HO-1XFMU6P-FT	TC57HO-1XFMU6P-ID TC57JO-1XFMU6P-TK TC57HO-1XFMU6P-NA	TC57X Home Page
TC72	TC720L-0ME24B0-A6 TC720L-0ME24B0-NA TC720L-0ME24B0-BR TC720L-0ME24B0-IA	TC720L-0ME24B0-TN TC720L-0ME24B0-FT TC720L-0MJ24B0-A6 TC720L-0MJ24B0-NA	TC72 Home Page
TC72 – AR1337 Camera	TC720L-0MK24B0-A6 TC720L-0MK24B0-NA	TC720L-0ML24B0-A6 TC720L-0ML24B0-NA	TC72 Home Page
TC77	TC77HL-5ME24BG-A6 TC77HL-5ME24BD-IA TC77HL-5ME24BG-FT (FIPS_SKU) TC77HL-7MJ24BG-A6 TC77HL-5ME24BD-ID TC77HL-5ME24BG-EA TC77HL-5ME24BG-NA	TC77HL-5MG24BG-EA TC77HL-6ME34BG-A6 TC77HL-5ME24BD-BR TC77HL-5MJ24BG-A6 TC77HL-5MJ24BG-NA TC77HL-7MJ24BG-NA	TC77 Home Page
TC77 – AR1337 Camera	TC77HL-5MK24BG-A6 TC77HL-5MK24BG-NA	TC77HL-5ML24BG-A6 TC77HL-5ML24BG-NA	TC77 Home Page
WT6300	WT63B0-TS0QNERW WT63B0-TS0QNENA WT63B0-TS0QNE01 WT63B0-TX0QNERW WT63B0-TX0QNENA WT63B0-TS0QNETR	WT63B0-KS0QNERW WT63B0-KS0QNENA WT63B0-KX0QNERW WT63B0-KX0QNENA	WT6300 Home Page

Component Versions

Component / Description	Version
Linux Kernel	4.19.157-perf
GMS	13_202304

AnalyticsMgr	10.0.0.1006
Android SDK Level	33
Audio (Microphone and Speaker)	0.9.0.0
Battery Manager	1.4.3
Bluetooth Pairing Utility	5.1
Camera	2.0.002
DataWedge	13.0.114
EMDK	13.0.1.4301
ZSL	6.0.29
Files	version t_frc_doc_330443000
MXMF	13.0.0.129
NFC	NFC_NCIHALx_AR18C0.d.2.0 NFC_NCIHALx_AR18C0.d.2.0 and 12.50.9 (for selected TC21 and TC26 devices)
OEM info	9.0.0.935
OSX	SDM660.130.13.4.7
RXlogger	13.0.11.17
Scanning Framework	39.25.21.0
StageNow	11.0.2.114
Zebra device manager	13.0.0.129
Zebra Bluetooth	13.4.3
Zebra Volume Control	3.0.0.93
Zebra Data Service	10.0.7.1001
WLAN	FUSION_QA_2_1.1.0.020_T
Showcase App	1.0.32
Wireless Analyzer	WA_A_3_1.1.0.010_T
Android System WebView and Chrome	111.0.5563.116

Revision History

Rev	Description	Date
1.0	Initial release	August 31, 2023