Release Notes – Zebra Android 11

11-20-18.00-RN-U00-STD-HEL-04 Release (NGMS)

Highlights

This Android 11 NGMS release 11-20-18.00-RN-U00-STD-HEL-04 covers MC3300ax, TC52AX, TC52AX HC, EC30, EC50, EC55, ET51, ET56, L10A, MC2200, MC2700, MC3300x, MC3300xR, MC93, PS20, TC21, TC21 HC, TC26, TC26 HC, TC52, TC52 HC, TC52x, TC52x HC, TC57, TC57x, TC72, TC77, TC8300, VC8300 & WT6300 family of products.

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.

Software Packages

Package Name	Description
HE_FULL_UPDATE_11-20-18.00-RN-U00-STD-HEL-04	Full package update
HE_DELTA_UPDATE_11-16-05.00-RN-U00-STD_TO_11-20-18.00-RN-U00-STD.zip	Delta package from previous release 11-16-05.00-RN-U00-STD
HE_DELTA_UPDATE_11-16-05.00-RN-U83-STD_TO_11-20-18.00-RN-U00-STD.zip	Delta package from previous release 11-16-05.00-RN-U83-STD
HE_DELTA_UPDATE_11-16-05.00-RN-U120-STD_TO_11-20-18.00-RN-U00-STD.zip	Delta package from previous release 11-16-05.00-RN-U120-STD

Security Updates

This build is Compliant up to Android Security Bulletin of February 01, 2022.

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	11-20-18.00-RN-U00-STD-HEL-04
Android Version	11
Security Patch level	February 01, 2022
Component Versions	Please see Component Versions under Addendum section

Device Support

The products supported in this release are MC3300ax, TC52AX, TC52AX HC, EC30, EC50, EC55, ET51, ET56, L10A, MC2200, MC2700, MC3300x, MC3300xR, MC93, PS20, TC21, TC21 HC, TC26, TC26 HC, TC52, TC52 HC, TC52x, TC52x HC, TC57, TC57x, TC72, TC77, TC8300, VC8300 & WT6300 family of products.

Please see device compatibility details under Addendum Section.

New Features

- Added support for Friendly Zebra Scanner Interface for seamless support of Zebra Bluetooth and USB Scanners via Scan Framework & Datawedge.
- Added Mobility DNA OCR Wedge v1 Early Access (Camera Only) family of licensed configurations.
  - o Tire Identification Number (TIN)
  - o Identification Documents (ID)
  - o License Plate
  - o Meter Reading
  - o Vehicle Identification Number (VIN)
- Added Datawedge support for Free-Form Image Capture (Camera/Imager)
- Added Datawedge support for Barcode Highlighting (Camera/Imager)
- Added support for Multi-Barcode – Minimum count & timeout duration to support decoding a changing number of barcodes.
- Added Datawedge support for Scan QR Code to Launch a Link.
- Added Datawedge Support for handling notifications for license updates (Activate & Deactivate). Third party agent will be notified immediately when the license status gets changed.
- SE5500 GA Release
- Added new MX feature to give admin complete control over the quick settings tiles.
- Added new MX feature for Battery Saver and Vibration Control.
- Added new MX feature for Dark Theme ON/OFF option.
- Added support for Signing Key Change to Support App Bundles.
- Added support for interface check before doing G-ARP.
- Added support for Save and restore to preserve the previous setting performed by KTI APIs.
- Added support for improved noise reduction on phones calls using Bluetooth connection
- Added support for pause and resume feature in FOTA client.
- Added support for LGE 3.0 A/B Streaming.
- Added support for Persist MDNA Enterprise Upgrade License.

- Updated the new launcher icon and splash screen for VOD app and fixed an issue related to Back button which was opening and displaying the videos even after pressing back button to exit the application.
- Added support for BMI270/ICM42607 Gyroscope/accelerometer Sensors.
- This release support TC52ax HC product.

Resolved Issues

- SPR45099 – Resolved an issue wherein the check digit rule was not working as expected on MSI barcode symbology with newer ZBACK scanner
- SPR45159 – Resolved an issue wherein DisAllowApplicationUpgrade was leading to Apps getting crashed.
- SPR44942 – Merged additional touch configurations to handle different touch configurations.
- SPR44618 and 44765 – Resolved an issue wherein Audio was intermittently getting routed via device mic instead of BT headset.
- SPR44619 – Fixed an issue of Ghost screen touches.
- SPR44265 – Fixed an issue of BT showing incorrect battery usage in bug report.
- SPR44833 – Fixed an issue of 'EthernetMgr' manual proxy config not working.
- Fixed Zebra Pay PD20 timer issue
- Fixed Settings ANR issues
- Fixed RxLogger EOF issue
- Fixed WPA3-SAE compatibility with CISCO AP
- Fixed Voice quality and Stability enhancement

Usage Notes

- BMI270/ICM42607 Gyroscope/accelerometer sensor devices require 11-20-18.00-RG-U00-STD or higher to ensure full G-sensor functionality.

- The installed Gyroscope/Accelerometer sensors can be identified either in SETTINGS or via ADB command:

  Settings:

  a. 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.

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

Known Constraints

- In-order to avoid any inconsistencies in Settings UI it is recommended to wait for a few seconds after the device boots up before launching settings UI.

- On upgrading a device from A8/A9/A10 to A11, NFC manager configuration need to be re-applied.

- Starting Android 11 on SDM660, an UPL file cannot consist of both Full OTA and Delta OTA package. On A11 customer can directly install the Full OTA package of required LG image

- One second Bluetooth jitter noticed in 2.4GHz band.

- Ethernet UI is accessible from settings despite being disabled

- RxLogger fails to store logs in internal storage when external SDCard is formatted as internal/adaptable, or it is ejected during run time.

- BLE FW update will not work without enabling location service under settings.

- Due to change in StageNow package name, Volume key assigned to StageNow in key programmer will not persist after OS upgrade. User can reprogram the volume key to overcome the issue.

- If DO enrollment is getting done with system app disable flag then com.zebra.devicemanager package needs to be enabled by ADMIN in order to use StageNow client or Mx features.

- When working with files on the Desktop, using mouse-drag to select, move and/or copy files causes some file management apps to crash. Zebra recommends using right-click copy and paste functions instead.

- StageNow's "Smart Profile" for LifeGuard updates has a known issue that prevents both the Upgrade or Downgrade of devices using this feature, this will be resolved in an upcoming LifeGuard release. If you are interested in upgrading or downgrading an Android device using StageNow, please use our "Perform OS Update" wizard for simplified OS upgrade/downgrade.

  Alternate ways to upgrade/downgrade are:

  - Use StageNow Expert mode with PowerMgr

  - Use existing EMM to upgrade/downgrade

  - Use on device LifeGuard FOTA client to update to the latest LifeGuard release

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

MC3300ax	MC330X-SJ2EA4CN MC330X-SJ3EA4CN MC330X-SJ4EA4CN MC330X-SA3EA4CN MC330X-SE3EA4CN MC330X-GE4EA4CN-UP	MC330X-SG3EA4CN MC330X-GJ2EA4CN MC330X-GJ3EA4CN MC330X-GJ4EA4CN MC330X-GE3EA4CN MC330X-GJ4EA4CN-UP	MC3300ax Home Page
EC30	EC300K-2SA2ACN		EC30 Home Page
EC50	EC500K-02B112-CN EC500K-02B132-CN	EC500K-02B223-CN EC500K-02B243-CN	EC50 Home Page
EC55	EC55BK-12B112-CN EC55BK-12B132-CN	EC55BK-12B223-CN EC55BK-12B243-CN	EC55 Home Page
ET51	ET51CE-L21E-00CN	ET51CE-L21E-SFCN	ET51 Home Page
ET56	ET56ET-L21E-00CN	ET56DE-L21E-00CN	ET56 Home Page
L10A	RTL10B1-xxxxxxxxxxCN Note: 'x' Stands for wild card for different configurations		L10A Home Page
MC2200	MC220K-3B3S4CN	MC220J-3A3S2CN	MC2200 Home Page
MC2700	MC27CK-3B3S4CN MC27CK-3B3S4CN03 MC27CJ-3A3S2CN	MC27CJ-3A3S2CN04 MC27CJ-3A3S2YY	MC2700 Home Page
MC3300x	MC330L-GE3EA4CN MC330L-GE4EA4CN MC330L-GH3EA3CN MC330L-GJ2EA4CN MC330L-GJ3EA4CN MC330L-GJ4EA4CN MC330L-GL3EA3CN MC330L-GL3EA4CN MC330L-RL2EA4CN MC330L-RL3EA4CN	MC330L-SA3EA4CN MC330L-SE3EA4CN MC330L-SG3EA4CN MC330L-SH3EA3CN MC330L-SJ2EA4CN MC330L-SJ3EA4CN MC330L-SJ4EA4CN MC330L-SK3EA4CN MC330L-SL3EA3CN	MC3300x Home Page
MC3300xR	MC333U-GJ4EA4CN MC339U-GE4EA4CN	MC339U-GF4EA4CN	MC3300xR Home Page
MC9300	MC930B-GSEEG4CN MC930B-GSCDG4CN MC930B-GSEDG4CN MC930B-GSADG4CN MC930B-GSACG4CN MC930P-GFADG4CN MC930P-GFEDG4CN MC930B-GSHDG4CN MC930P-GFCDG4CN	MC930P-GFEBG4CN MC930P-GFABG4CN MC930P-GFHBG4CN MC930P-GFHDG4CN MC930P-GSGBA4CN MC930P-GSGDA4CN MC930P-GSWBA4CN MC930P-GSWDA4CN MC930P-GSFDG4CN	MC9300 Home Page

	MC930P-GFCBG4CN MC930P-GSFDA4CN	MC930B-GSECG4CN	
PS20	PS20J-B2G2CN00 PS20J-P4G2CN00	PS20J-P4H2CN00	*PS20 Home Page*
TC21	TC210K-06B224-CN TC210K-02A222-CN TC210K-02B212-CN	TC210K-02B412-CN TC210K-02A423-CN	*TC21 Home Page*
TC21 HC	TC210K-06B224-CN		*TC21 Home Page*
TC26	TC26CK-12A222-CN TC26CK-12B212-CN	TC26CK-16B224-CN TC26CK-12A423-CN	*TC26 Home Page*
TC26 HC	TC26CK-16B224-CN		*TC26 Home Page*
TC52	TC520K-2PEZU4P-CN		*TC52 Home Page*
TC52 HC	TC520K-2HEZU4P-CN		*TC52 HC Home Page*
TC52x	TC520K-1XFMU6P-CN		*TC52x Home Page*
TC52x HC	TC520K-1HCMH6P-CN		*TC52x Home Page*
TC52AX	TC520L-2YFMU7P-CN		*TC52ax Home Page*
TC57	TC57HO-2PEZU4P-CN	;	*TC57 Home Page*
TC57x	TC57HO-3XFMU6P-CN		*TC57X Home Page*
TC72	TC720L-0ME24B0-CN TC720L-02E24B0- CN	TC720L-0ME24B0-CN TC720L-02E24B0- CN	*TC72 Home Page*
TC77	TC77HL-5ME24BG-CN	TC77HL-52E24BDCN	*TC77 Home Page*
TC8300	TC83B0-6005A510CN TC83B0-2005A510CN TC83B0-3005A510CN TC83B0-2005A61CCN TC83B0-3005A61CCN TC83BH-3205A710CN	TC83BH2205A710CN TC83BH3205A710CN TC83B0-4005A610CN TC83B0-5005A610CN TC83BH-2205A710CN	*TC8300 Home Page*
VC8300 8"	VC83-08SOCQBABBACN	VC83-08FOCQBABBACN	*VC8300 Home Page*
WT6300	WT63B0-TS0ANECN	WT63B0-KS0ANECN	*WT6300 Home Page*

Component Versions

Component / Description	Version
Linux Kernel	4.19.157-perf
AnalyticsMgr	10.0.0.1002
Android SDK Level	30
Audio (Microphone and Speaker)	0.31.0.0
Battery Manager	1.2.9
Bluetooth Pairing Utility	3.25
Camera	2.0.002
DataWedge	11.3.28
EMDK	11.0.123.4023
License Manager and License agent	6.0.8 and 6.0.23.5.0.1
MXMF	11.3.0.2
NFC	NFC_NCIHALx_AR18C0.b.1.0
OEM info	9.0.0.565
OSX	QCT.110.11.11.15
RXlogger	7.0.0.0
ZWC	1.3.51
Scanning Framework	32.7.17.0
StageNow	11.0.2.99
WLAN	FUSION_QA_2_1.10.0.002_R Radio: QA_2_1.10.0.002_R Application: QA_2_1.10.0.001_R Middleware: QA_2_1.10.0.001_R Supplicant: QA_2_1.10.0.001_R Firmware: FW:3.3.5.1.759.4 HW:HW_VERSION=40050000.
WorryFree WiFi	WFW_A_2_6.7.0.006_R
Zebra Bluetooth	11.1.6
Zebra Volume Control	3.0.0.56

Zebra Data Service	10.0.4.1224
Embedded Controller Firmware	VC8300 8"/10": 3.3.01

Revision History

Rev	Description	Date
1.0	Initial release	March 21, 2022