

# Release Notes - Zebra TC8000 Android L LifeGuard Update 22 Release (NGMS)

## **Highlights**

This release contains following software package which is compatible for TC8000 NGMS product.

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

Note: Downgrade to Patch 6 or older patch version are not allowed on TC8000L devices which contains Hynix 16gb A15nm eMMC Memory.

#### **Software Packages**

Package Name	Description	
CFE-TC8000-L-XX-021002-N-00-22.zip	LG Package Update	

#### **Security Updates**

\* Android Security Patch Level: March 05, 2018 (Critical Patch Level: February 01, 2022) Use the below link to see the Android Security bulletin for more information:

https://source.android.com/security/bulletin/

#### CFE v22:

CFE-TC8000-L-XX-021002-N-00-22.zip (NGMS)

#### CFE v21:

- CFE-TC8000-L-XX-021002-N-00-21.zip (NGMS)
  - SPR45273 CVE 2021-1048 Patched the use-after-free security vulnerability which could allow code execution andlocal elevation of privilege to the kernel from an untrusted application.

#### CFE v20:

- CFE-TC8000-L-XX-021002-N-00-20.zip (NGMS)
  - SPR41124 Resolved an issue wherein scan button BUTTON\_R1 was consumed by chromium app to switch tab instead of scanning.
  - SPR41487 Resolved an issue wherein bug report sometimes produces an error when uploaded to Battery Historian.
  - Scanner Framework updated to 19.65.37.4
    - a. SPR44327/SPR43562 Resolved an issue wherein scanner doesn't work after reboot when device enrolled in SOTI mode.



b. SPR41676 - Resolved an issue wherein devices are unable to scan dot matrix barcodes.

#### CFE v19:

- CFE-TC8000-L-XX-021002-N-00-19.zip (NGMS)
  - SPR42956 Resolved an issue wherein device cannot handle AP scan results when coming back from out
    of WiFi range.
  - Updated following Components:
    - o Android System WebView: 90.0.4430.66

#### CFE v18:

CFE-TC8000-L-XX-021002-N-00-18.zip (NGMS)

#### CFE v17:

- CFE-TC8000-L-XX-021002-N-00-17.zip (NGMS)
  - Updated following components:
    - o WebView: 83.0.4103.83

#### CFE v16:

- CFE-TC8000-L-XX-021002-N-00-16.zip (NGMS)
  - SPR38628 Fixed Scanner mis-reads issue if scanning via DataWedge code 128 bar code
  - SPR39819 Resolved an issue wherein an additional "Enter key" was being added in the barcode data when DataWedge ADF rule for Line feed Action Key Char was set to "Send Char" 10
  - Updated following components:
     Scanner Framework Version: 19.62.37.1

#### CFE v14:

- CFE-TC8000-L-XX-021002-N-00-14.zip (NGMS)
  - SPR38923 Resolved an issue wherein License manager where same act id can be run multiple times consuming additional licenses
  - SPR37272 Resolved an issue wherein EHS Hostname in title was not reflecting updated Hostname after device reboot
  - SPR38538/39257 Resolved an issue wherein framework reset was observed when barcode was rapidly being scanned into browser
  - SPR37771 Fixed an issue wherein the device was associated to an access Point and does not roam.
  - SPR34909 Resolved an issue when device initiates a connection with Mesh BSSID.
  - SPR34976 Resolved an issue wherein Enterprise Keyboard Autocapitalization doesn't work if you navigate away from the alpha keyboard prior to typing
  - SPR37434 Resolved an issue wherein device heats up when the configuration is pushed as xml file from AirWatch or StageNow



- SPR38341 Resolved an issue wherein device was getting stuck in boot loop as audio service was getting started a little late.
- Updated following Components:

License Manager: 3.2

Zebra Data Service : 3.7.0.1004 WIFI : FUSION\_QA\_2.00.0.026

#### **CFE v13**:

- ❖ CFE-TC8000-L-XX-021002-N-00-13.zip (NGMS)
  - SPR37258 Resolved an issue where DNS Resolution fails when device roams to different subnet.
  - SPR36633 Resolve a scan failure issue when application using EMDK Timed Release api to scan the barcodes.
  - SPR36971 Resolved an issue wherein the device was sometimes sticking to Wi-Fi Access Points even at very low signal levels.
  - SPR36522 Resolved an issue where Enterprise Keyboard crash is happening in default SOTI lockdown profile in device.
  - SPR37136 Resolved an issue where device registers as 11ac client.
  - Updated below mentioned components:
    - Scanner Framework: 19.56.37.2
    - WLAN: FUSION QA 2.00.0.0.021

#### **CFE v12**:

- CFE-TC8000-L-XX-021002-N-00-12.zip (NGMS)
  - SPR35912 Resolved an issue wherein 11k operation depends on 11r functionality
  - SPR35838 Resolved an issue wherein binder death between IMS and DW due to Keyboard switch
  - SPR36617 Resolved an issue wherein device was not connecting to EAP-MSCHAPv2 enabled infra for localized supported countries.
  - SPR35288 Fixed an issue wherein initialization of scanner was taking ~1sec.
  - SPR35054 Added support for reduced quite zone barcode decoding.
  - SPR34844 Resolved an issue wherein multiple open calls are prevented when multiple application tries to open scanner without releasing previous instance.
  - Updated below mentioned components:
    - Scanner Framework: 19.53.37.0
    - Bluetooth: 01.018.00

#### CFE v11:

- CFE-TC8000-L-XX-021002-N-00-11.zip (NGMS)
  - SPR36118 Resolved an issue wherein patch version was not updating in cfe.ini.
  - SPR34738 Resolved an issue wherein device reboots when VPN connection established over Cellular (AT & T).
  - SPR35368 Resolved an issue wherein scanner crash while scan the barcode just before suspend
    or after resume the device.



- SPR35362 Resolved an issue to set hardware picklist to scan barcodes which are very close to each other.
- SPR35400 Resolved an issue where LEAP/FAST authentication was not listed for localized language.
- SPR35368 Resolved an issue wherein DW demo app has stopped access to SE965 scanner.
- SPR35125 Resolved an issue wherein Audio MIC gain api's were not working as expected for TC8000.
- SPR35476 Resolved an issue wherein DW demo app has stopped access to SE965 scanner.
- SPR33709 Implemented the intercharacter delay functionality in Datawedge to support RDP session scan data transfer.
- SPR34191 Resolved an issue where Devices not sending the hostname to the DHCP server.
- Updated below mentioned components:
  - MX: 7.2.10.2 (For detail please refer http://techdocs.zebra.com)
  - o Scanner Framework: 19.12.35.0
  - o EKB:1.7.0.5
  - o Bluetooth: 01.015.00

#### CFEv10:-

- CFE-TC8000-L-XX-021002-N-00-10.zip (NGMS)
  - SPR35025 Resolved an issue where Proxy Auto Config (PAC) did not work properly following stops/restarts of the PacService.
  - SPR33977 Resolved an issue wherein set time zone issue observed with StageNow.
  - SPR34716 Resolved an issue wherein the MX Framework did not restart properly following events where the service was stopped.
  - SPR34679 Resolved an issue wherein setting WiFi Band selection to Auto was not working properly with StageNow.
  - SPR34936 Resolved an issue wherein Datawedge used to crash on bootup.
  - SPR33755 Resolved an issue wherein the Whitelisted apps were unable to submit XML to MX.
  - SPR35536 Added support for Enterprise Lockdown feature.
  - SettingsEULA has been renamed to Zebra Data Services.
  - Updated below mentioned components:
    - MX: 7.2.9.0 (For detail please refer http://techdocs.zebra.com)
    - o Scanner Framework: 19.10.35.1
    - o ZSL:3.1.1
    - o <u>WifiConfigCSP:7.0.1</u>

#### CFE v9:

CFE-TC8000-L-XX-021002-N-00-09.zip (NGMS)

Note: If whitelisting (Applock) is enabled, ZSL functionalities will NOT work. This issue will be fixed in next LifeGuard patch release.

- SPR33207 Resolved an issue wherein the Device Diagnostic tool had an issue with reading the Battery Cycles in the application for PP+ batteries.
- SPR34267 Resolved an issue where-in user was not able to enable USB debugging option using StageNow.



- SPR33862 Fixed an issue where-in user could not set Display Timeout value of 30min using StageNow.
- SPR34145 Fixed an issue wherein user was unable to connect to WLAN network due to WEP Key Index issue.
- SPR34307 Resolved an issue wherein device out of the box intermittently failed to get staged via StageNow.
- SPR34083/34014/32519 Resolved an issue wherein disabling WWAN radio via Airwatch using StageNow XML fails.
- SPR33639 Resolved an issue wherein the customer app install and launch during device sleep state and device stop emitting scan beam after awake from suspend.
- SPR33876 Resolved an issue wherein Display Timeout was unable set via StageNow.
- SPR33607 Resolved an issue where few fresh devices were unable to stage after unbox the device.
- SPR33538 Resolved an issue wherein the Scanner beam stuck off and No LED beam while pressing scanner button.
- SPR33981 Resolved an issue Czech Republic Regulatory Country could not be set using Wifi config profile.
- SPR34429 Resolved an issue wherein device failed to emit scan beam if the application was launched during device suspend.
- SPR34614 Fixed an issue in DataWedge wherein scanner could not be enabled due to quick enabling and disabling of scanner through Intents.
- SPR34716 Resolved an issue wherein the MX was getting killed by Backupmanager and didn't restart properly.
- SPR34213 Resolved an issue wherein shared preference initialization without launching EKB
- Updated below mentioned components:
  - o Datawedge: 6.7.48
  - EKB: 1.7.0.2 (Added as an System application with this CFE 09)
  - o MX: 7.2.8.2

#### CFE v8:

- CFE-TC8000-L-XX-021002-N-00-08.zip (NGMS)
  - Spectre & Meltdown correction for variant 1 and variant 2
  - SPR33599 Resolved an issue wherein few of the system applications are getting disabled after enabling whitelist.
  - SPR33799 Resolved an issue wherein scanner was unable to read '\n' and '\r'.
  - SPR33930 Resolved an issue wherein dhcp address was not acquired by the device, while hostname is greater than 32 characters.
  - SPR33823 Resolved an issue wherein black screen occurred in DataWedge application.
  - SPR33674- Resolved a flash corruption issue with multiple symptoms like unable to turn on WIFI.
  - SPR33973- Resolved an issue wherein erroneously loading default profile by providing feature to ignore disabled profiles in DataWedge.
  - SPR33671- Resolved an issue wherein user was unable to create WIFI profile with username as backslash followed by number.
  - Updated below mentioned components:
    - Datawedge: 6.7.47
    - StageNow: 2.10.1.1389
    - o EMDK: 6.8.21.1121
    - o MX: 7.2.1.0
    - o File Browser: 1.19.12
    - o Diagnostic Tool: 1.15.0.11
    - Scanner Framework: 19.9.35.0



Radio: 2.00.0.0.009Bluetooth: 01.12.00

#### CFE v6:

CFE-TC8000-L-XX-021002-N-00-06.zip (NGMS)

#### CFE v5:

- CFE-TC8000-L-XX-021002-N-00-05.zip (NGMS)
  - SPR32988 Resolved an issue wherein the BUTTON\_R2 has been consumed by both barcode scanner and Google chrome client.
  - SPR33233 Resolved an issue wherein the DataWedge 6.2.24 could not replace separator or non-printable ascii character with \$.
  - SPR32825 Resolved an issue wherein BT headset volume up/down was not working during Bluetooth call scenario.
  - SPR32463 Resolved an issue wherein the StageNow File Manager downloads frequently fails due to Socketimeout exception.
  - Updated below mentioned components:
    - Datawedge: 6.6.49StageNow: 2.9.1.1344EMDK: 6.7.10.1010
    - o MX: 7.1.1.0

#### CFE v4:

- CFE-TC8000-L-XX-021002-N-00-04.zip (NGMS)
  - Corrections for KRACK vulnerabilities applied.
  - SPR30400/31340 Added support to enable/disable Network Monitoring Notification.

#### CFE v3:

- ❖ CFE-TC8000-L-XX-021002-N-00-03.zip (NGMS)
  - Updated below mentioned components:
    - MXMF Version 7.0.2.1
    - DataWedge Version 6.5.61
    - EMDK Version 6.6.14.914
    - Staging Client Version 2.8.1.1221
  - Resolved an issue in MX to prevent leakage of configuration parameters.
  - Included fix for BlueBorne vulnerability.
  - SPR31745 Resolved an issue wherein AOSP doesn't returns a network interface address when mylpAddress/mylpAddressEx is queried.
  - SPR32373 Resolved an issue wherein the barcode data is not transmitted when "All Decoders" is unchecked and every single decoder is checked.
  - SPR32582 Added support for Netherlands Belgium language.
  - SPR32008\_SPR31820 Resolved an issue wherein scanning PDF417 barcodes which contain embedded 0x0D characters resulted in continuous line of data instead of displaying in different lines.
  - SPR32132/SPR32896 Resolved an issue wherein wifi was getting disabled intermittently when the battery hot swaps were done frequently.
  - SPR32676 Resolved an issue wherein DataWedge App crashes when Velocity App tries to send an Intent to enable the scanner plugin.



 SPR32775 - Resolved an issue wherein the notification class created with FLAG\_INSISTENT was not getting cleared upon pulling down the notification drawer.

#### CFE v2:

- CFE-TC8000-L-XX-021002-N-00-02.zip (NGMS)
  - SPR29912 Resolved an issue wherein certificates installation failed through stagenow.
  - SPR30401 Added support to get the CFE version via MDM clients.
  - SPR31954 Resolved an issue wherein dhcpd was not able to start due to lengthy host name.
  - SPR32135 Resolved an issue wherein Settings screen does not revert to its normal state even though the locale language is changed from Arabic to English via EMDK.
  - SPR32240 Resolved an issue wherein the scanner service was not responding while switching between applications.
  - SPR32193\_SPR32230 Resolved an issue wherein devices experiencing authentication failures, and were not able to recover.
  - SPR32539 Resolved an issue wherein build certificates were lost randomly even though certificates were not expired.
  - SPR32355 Resolved an issue wherein dhcp was not able to start due to lengthy host name.
  - SPR32413 Resolved an issue wherein after selecting the static option in the ethernet settings, changes are not reflecting in interface and the interface was always dhcp.
  - SPR32326 Resolved an issue wherein Settings application crashed while trying to set enterprise
    keyboard as the default keyboard and disable AOSP keyboard through the stageNow profile.

#### CFE v1:

- ❖ CFE-TC8000-L-XX-021002-N-00-01.zip (NGMS)
  - Added Zebra patch version value in Settings to identify the CFE Patch version.

#### **Version Information**

Below Table contains important information on versions

Description	Version
Product Build Number	02-10-02-L-00-A
Android Version	5.1.1
Patch Version	22
Security Patch level	2018-03-05 (Critical Patch Level: 2022-02-01)
Linux Kernel	3.4.0
Component Versions	Please see Component Version under Addendum section



### **Important Links**

#### **Installation Requirements**

- The Software update requires SKU hardware device.
- Enterprise Reset and Factory Reset package files are available on the TC8000 Software Download section on Zebra.com

#### Installation Instructions

BEFORE UPDATING THE OS IMAGE, EXTERNAL POWER MUST BE APPLIED TO THE TERMINAL VIA USB CHARGING CABLE OR CRADLE.

PLEASE ENSURE BATTERY LEVEL IS > 30%

#### **CFE** software update procedure for TC8000 GMS:

- 1. Connect the USB cable from your PC to the device and enable USB mass storage mode on the device.
- 2. On your PC you should see an internal and external USB mass storage drive (SD card) appears in the File Explore and copy "CFE-TC8000-L-XX-021002-N-00-22.zip" file to any storage.
- 3. Press and hold on the device Power button, click on power off and wait until the screen is turned OFF.
- 4. Press and hold power, Vol+ button and Scanner button.
- 5. Keep holding all three buttons until the device vibrates.
- 6. Device should enter recovery mode.
- 7. if applying update via Sideload Method
  - a. Use the Volume + and to highlight, "Apply update from ADB" and press the Scanner Key to select it
  - b. With your Command Prompt open in the Host machine, type "adb sideload" command and add a space and then drag and drop the CFE on to it and click enter.
  - c. Your PC screen will show files being installed and a little blue horizontal progress bar on your device will show status... and after about 6~ minutes it should be done and you should be back at the Android Recovery screen.
  - d. "Reboot system now" is highlighted. Press the Scanner Key to Reboot.
- 8. If applying update via SD card.
  - a. Click on Vol+ or Vol- to navigate and select SD card or internal storage. Press Scanner button to select it.
  - b. Click on Vol+ or Vol- to navigate to the recovery update zip file.
  - c. Click on Scanner button to select and start the recovery update process.
  - d. Device will automatically reboot and will be ready to use.
- 9. To Check the Android Patch Level after installing the CFE package in the device,



- a. Settings->About Device->SW Components: Device Patch Version: 22
- ADB Shell method: Execute following command from PC's command prompt:
   \$ adb shell getprop ro.device.patch.version
   \$ 22
- 10. Now you are all set to use your TC8000.

## **Device Support**

This software release has been approved for Android TC8000 L models mentioned below.

TC80N0-A000K110NA         Android 5.1.1           TC80N0-1000K210NA         Android 5.1.1           TC80N0-2000K210NA         Android 5.1.1           TC80N0-3000K210NA         Android 5.1.1           TC80N0-A001K31CNA         Android 5.1.1           TC80N0-1001K31CNA         Android 5.1.1           TC80N0-2001K31CNA         Android 5.1.1           TC80N0-3001K31CNA         Android 5.1.1           TC80NH-A101K320NA         Android 5.1.1           TC80NH-1101K420NA         Android 5.1.1           TC80NH-2101K420NA         Android 5.1.1           TC80NH-3101K420NA         Android 5.1.1           TC80N0-1101K42ENA         Android 5.1.1           TC80N0-A000K110IN         Android 5.1.1           TC80N0-1000K210IN         Android 5.1.1           TC80N0-3000K210IN         Android 5.1.1           TC80N0-A001K31CIN         Android 5.1.1           TC80N0-1001K31CIN         Android 5.1.1	Device	Operating System	
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Android 5.1.1
Android 5.1.1

## **Addendum**

## **Component Versions**

Component / Description	Version	
Android SDK Level	22	
Platform	QC 8960 Pro	
Bluetooth Stack	01.015.00	
Flash Size	4GB/8GB/16GB	
RAM Size	1GB/2GB	
MSP Package	7.08.85 (Included for Airwatch support only)	
Scanner Framework	19.65.37.4	
Datawedge	6.7.51	
OSX/ Mx	OSX QC.51.5.2.14 / MXMF version: 7.2.10.3	
Wi-Fi	FUSION_QA_2.00.0.0.029	
Mlog	MLogPackage v06.54 / MLogManager v06.54 / Service v06.54	
PTT Express	3.1.27	



EMDK Service	6.8.24.1124	
RxLogger	4.58.5.0	
Touch FW	TTDA.03.04.721053 FW:2.0.860395, TTCONFIG0017	
Zebra Volume Control	1.1.23	
B2M	1.0.0.297	
Bluetooth Pairing Utility	3.7	
DataAnalytics	3.7.1.1002	
File Browser	1.19.1.2	
Stage Now	2.10.1.1389	
App Gallery	2.8.4.13	
WLAN FW	MAAAAANAZW1240301	
NFC	NFC_NCIHAL_AR3.5.0_Lollipop, FW:122	
Sensors (Accel, Gyro, Light, Prox)	1	
MobiControl	12.2.0. Build 23469	
Wavelink Velocity	1.2.104.17026.bb967b9	
Tap and Pair	2.0	
ZSL	3.1.1	
EKB	1.7.0.5	
WifiConfigCSP	7.0.1	
Zebra Data Service	3.7.1.1003	
Zebra Data Services	1.0.0.1002	
SimulScan Demo App	3.0.2	
SimulScanRes	2.0.2	
License Manager	3.2	
WebView	90.0.4430.66	

## **Revision History**

Rev	Description	Date
1.0	Initial Release	February 18, 2022