



# Release Notes for Zebra TC20 and TC25 Android Oreo 01-28-07.00-OG-U24-STD Release (GMS)

## Highlights

The details of the Android GMS Oreo release 01-28-07.00-OG-U24-STD that covers TC20/TC25. Please see, Device Compatibility under Addendum Section for more details.

## Software Packages

Package Name	Description
IRIS_DELTA_UPDATE_01-28-07.00-OG-U24.zip	Delta Package Update

## Security Updates

This build is Compliant up to [Android Security Bulletin](#) of October 5, 2021.

### LifeGuard Update 24:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Google Play service	v21.15

#### Fixes:

1. Added fix for multiple vulnerability issues (FragAttack) with respect to Fragmentation and Forging attacks.

### LifeGuard Update 23:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	PTT Express	v3.1.54

- FUSIONLITE\_QA\_1\_0.0.0.029\_O  
Radio: QA\_1\_00.0.0.023\_O  
Application: QA\_1\_00.0.0.009\_O  
Middleware: QA\_1\_00.0.0.014\_O

#### Fixes:

2. SPR40440 - Remove Google Engineering mode which is displayed on dialing MMI code.

### LifeGuard Update 21:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Android security patch level	June 1, 2021

### LifeGuard Update 19:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Android security patch level	May 5, 2021
2	IMEI SV Number	12

### LifeGuard Update 18:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Mx version	9.4.0.5
2	MX Proxy Framework	10.3.0.18
3	OSx version	QCT_81_8.13.4.UL
4	Chrome Webview	87.0.4280.141

### LifeGuard Update 16:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Android security patch level	March 5, 2021

### LifeGuard Update 14:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Android security patch level	February 5, 2021

### LifeGuard Update 13:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	OemInfo	9.0.0.331

### LifeGuard Update 12:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.
  - FUSIONLITE\_QA\_1\_0.0.0.028\_O  
Radio: QA\_1\_00.0.0.022\_O  
Application: QA\_1\_00.0.0.009\_O  
Middleware: QA\_1\_00.0.0.014\_O

### LifeGuard Update 11:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Chrome Browser	85.0.4183.127
2.	OemInfo	9.0.0.282

### Features

- Added support in OemInfo to allows customer applications and sideloaded applications to read BT MAC address

### LifeGuard Update 09:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Android security patch level	October 5, 2020

### LifeGuard Update 07:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Scanning Framework	23.1.9.1
2.	Zebra Data Service	7.0.2.1047
3.	OemInfo	9.0.0.198

### Fixes

- SPR40287 – Added updates on feature dotcode bar-codes.

### LifeGuard Update 05:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	MX	9.4.0.2
2.	Data Wedge	7.3.34
3.	Stage Now-Client	3.4.1.5
4.	EMDK for Android	7.3.23.2323
5.	MX Proxy Framework	10.0.1.1
6.	OSx	QCT.81.8.11.4.UL

### Fixes

- SPR40193/40250 – Resolved an issue wherein user was unable to power off the device by clicking on the Power menu item while automation suite was running on the device.

### LifeGuard Update 03:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

- FUSIONLITE\_QA\_1\_0.0.0.027\_O  
Radio: QA\_1\_00.0.0.021\_O  
Application: QA\_1\_00.0.0.009\_O  
Middleware: QA\_1\_00.0.0.014\_O

### Fixes

- SPR39819 – Resolve an issue where EXTRA Enter was observed in app's multiline input field on scan the barcode with DW settings have set Action Key Char as "Line Feed".

### LifeGuard Update 02:

- This LG patch is applicable for 01-28-07.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

- FUSIONLITE\_QA\_1\_0.0.0.026\_O  
Radio: QA\_1\_00.0.0.020\_O  
Application: QA\_1\_00.0.0.009\_O  
Middleware: QA\_1\_00.0.0.013\_O

## Fixes

- SPR38643 – Added support for “Send Characters As Events” option.
- SPR38723 – Resolved an issue wherein the DST time zone for Sao Paolo was shown incorrect.

## Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	01-28-07.00-OG-U24-STD
Android Version	8.1.0
Security Patch level	October 5, 2021
Linux Kernel	3.18.71
Component Versions	Please see Component Version under Addendum section

## Installation Instructions

### Software update procedure

The installation instructions assume user has ADB installed on their PC (the adb drivers etc..) and user device has developer options enabled and USB debugging ON. Please check following link for more information on installation and setup instructions.

- [Installation and setup instructions](#)

### NOTE:

For Enterprise Mobile Device Management, most EMM vendors such as SOTI, AirWatch, MobileIron, etc. WILL require an updated device management agent to support this OREO enterprise device. Do NOT use your existing device management agent and console with this device without first contacting your EMM vendor to understand when the agent supporting this device is available and whether a console upgrade is required as well. Attempting to enroll with an agent that is not validated to support the device will result in errors.

## Addendum

### Device Compatibility

This software release has been approved for use on the following devices.

## TC20 Home Page

TC20	
Device Part Number	Operating System
TC200J-10C112A6	Android O GMS ROW – EMEA, LATAM, APAC & Canada
TC200J-10C112US	Android O GMS US Only
TC200J-10A111US	Android O GMS US Only
TC200J-10A111A6	Android O GMS ROW – EMEA, LATAM, APAC & Canada
TC200J-10C213A6	Android O GMS ROW – EMEA, LATAM, APAC & Canada (Premium SKU)
TC200J-10C213US	Android O GMS US Only (Premium SKU)
TC200J-10A111TN	Android O GMS TUNISIA Only
TC200J-10C112TN	Android O GMS TUNISIA Only
TC200J-10C213IA	Android O GMS INDIA (Premium SKU)
TC200J-10C112IA	Android O GMS INDIA
TC200J-10A111IA	Android O GMS INDIA
TC200J-1KC111A6	Android O GMS ROW EMEA, LATAM, APAC & Canada (Keyboard SKU)
TC200J-1KC111IA	Android O GMS INDIA (Keyboard SKU)
TC200J-1KC111TN	Android O GMS TUNISIA (Keyboard SKU)
TC200J-1KC111US	Android O GMS US (Keyboard SKU)
TC200J-10C213AZ	Android O GMS Australia/New Zealand (Premium SKU)

## TC25 Home Page

TC25	
Device Part Number	Operating System
TC25AJ-10C102A6	Android O GMS ROW – EMEA
TC25AJ-10B101A6	Android O GMS ROW – EMEA
TC25BJ-10C102A6	Android O GMS ROW – EMEA & APAC
TC25BJ-10B101A6	Android O GMS ROW – EMEA & APAC
TC25BJ-10C102IA	Android O GMS ROW - INDIA
TC25BJ-10B101IA	Android O GMS ROW - INDIA
TC25BJ-10C102BR	Android O GMS ROW - BRAZIL
TC25BJ-10B101BR	Android O GMS ROW - BRAZIL
TC25BJ-10C102JP	Android O GMS ROW - JAPAN
TC25BJ-10B101JP	Android O GMS ROW - JAPAN
TC25DJ-10C102AZ	Android O GMS Australia/New Zealand (Premium SKU)

TC25AJ-10C102US	Android O GMS NORTH AMERICA - US
TC25BJ-10B1011D	Android O GMS ROW - INDONESIA
TC25BJ-10C102ID	Android O GMS ROW - INDONESIA

## Component Versions

For detailed release notes, please refer [techdocs.zebra.com](http://techdocs.zebra.com), [developer.zebra.com](http://developer.zebra.com)

Component / Description	Version
<b>Build_version</b>	01-28-07.00-OG-U24-STD
<b>Android_version</b>	8.1.0
<b>Android_SDK_Level</b>	27
<b>Android Security Patch Level</b>	October 5, 2021
<b>Linux_kernel</b>	3.18.71
	FUSIONLITE_QA_1_0.0.0.029_O Radio: QA_1_00.0.0.023_O Application: QA_1_00.0.0.009_O Middleware: QA_1_00.0.0.014_O
<b>Wifi</b>	Firmware: CNSS-PR-4-0-00718/01050102
<b>Platform</b>	Qualcomm MSM8937
<b>Scanning_Framework</b>	23.1.9.1
<b>DWDEmo</b>	2.0.15
<b>OSX</b>	QCT.81.8.13.4.UL
<b>MXMF</b>	9.4.0.5
<b>Touch</b>	Focaltech V1.1 20161103 (fw:0x24)
<b>Acoustic Profiles</b>	General: CO4.2 Cellular: CO4.2
<b>Bluetooth_Stack</b>	CNSS-PR-4-0-00718/01050102
<b>Flash_Size</b>	16G /32G
<b>RAM_Size</b>	2G
<b>GPS</b>	MPSS.JO.3.0.c13-00026-8937_GENNS_PACK-1
<b>MMS</b>	8.1.0
<b>RIL_Version</b>	Qualcomm RIL 1.0
<b>BT_Pairing_UTILITY</b>	3.15

<b>Datawedge</b>	7.3.34
<b>Camera</b>	2.0.002
<b>PTT</b>	3.1.54
<b>RxLogger</b>	5.4.12.0
<b>StageNow</b>	3.4.1.5
<b>MX Proxy Framework</b>	10.3.0.18
<b>Zebra Data Service</b>	7.0.2.1047
<b>Zebra Software License Manager</b>	3.2.0
<b>EMDK</b>	7.3.23.2323
<b>IMEI SV Number</b>	12
<b>OEM Config</b>	9.0.0.331
<b>DDT</b>	v1.17.0.9
<b>Chrome WebView</b>	89.0.4389.90
<b>GMS Version</b>	8.1_201812
<b>Fingerprint</b>	Zebra/TC25/TC25FM:8.1.0/01-28-07.00-OG-U24-STD/ 210928:user/release-keys, Zebra/TC20/TC20RT:8.1.0/01-28-07.00-OG-U24-STD/ 210928:user/release-keys, ZebraTC20/TC20RD:8.1.0/01-28-07.00-OG-U24-STD/ 210928:user/release-keys, Zebra/TC20/TC20KB:8.1.0/01-28-07.00-OG-U24-STD/ 210928:user/release-keys,

## Important Links

- <https://techdocs.zebra.com/datawedge/7-3/guide/about/>
- <https://techdocs.zebra.com/emdk-for-android/7-3/guide/about/>
- <https://techdocs.zebra.com/stagenow/3-4/about/>
- <https://techdocs.zebra.com/mx/>
- <https://techdocs.zebra.com/ddt/1-1/guide/about/>
- <https://techdocs.zebra.com/rxlogger/5-4/guide/about/>

## Known Issues and Workarounds

- OS downgrade behavior has changed in Oreo. Automatic enterprise data reset is performed when the system detects OS downgrade operation. Following are the examples of OS downgrade operations:
  - Oreo (GMS) to Nougat (GMS)
  - Downgrading to lower patch version within Oreo.
- To avoid text cropping in some applications, accessibility options can be used to change the display size to small.
- An issue wherein period key was not working on Remote connections (RDP / Horizon / Citrix )



User needs to push an empty file namely SPR36457.txt and copy it into /enterprise/usr/persist/ and reboot the device for this functionality to get enabled.

## Revision History

REV	DESCRIPTION	DATE
1.0	Initial Release	October 7, 2021