

# Release Notes for Zebra TC20 and TC25 Android Oreo 01-28-07.00-ON-U23-STD Release (Non-GMS)

## Highlights

The details of the Android Non-GMS Oreo release 01-28-07.00-ON-U23-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-ON-U23.zip	Delta Package Update

## Security Updates

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

### LifeGuard Update 23:

- This LG patch is applicable for 01-28-07.00-ON-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:

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

### LifeGuard Update 19:

- This LG patch is applicable for 01-28-07.00-ON-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-ON-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	Webview	89.0.4389.90

### LifeGuard Update 13:

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

S.N.	Component	Version
1.	OemInfo	9.0.0.331
2.	Wifi	FUSIONLITE_QA_1_0.0.0.028_O
3.	Radio	QA_1_00.0.0.022_O
4.	Application	QA_1_00.0.0.009_O
5.	Middleware	QA_1_00.0.0.014_O

### LifeGuard Update 11:

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

S.N.	Component	Version
1.	WebView	85.0.4183.101
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-ON-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-ON-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-ON-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-ON-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-ON-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-ON-U23-STD
Android Version	8.1.0
Security Patch level	July 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-20C112CN	Android O (Non-GMS Only) China Only
TC200J-20A111CN	Android O (Non-GMS Only) China Only
TC200J-2KC111CN	Android O (Non-GMS Only) Keyboard SKU - China Only
TC200J-2KC11112	Android O (Non-GMS Only) China Only
TC200J-20C213CN	Android O (Non-GMS Only) Premium SKU -China Only

[TC25 Home Page](#)

TC25	
Device Part Number	Operating System
TC25CJ-20B101CN	Android O (Non-GMS Only) China Only
TC25CJ-20C102CN	Android O (Non-GMS Only) China Only

### Component Versions

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

Component / Description	Version
Build_version	01-28-07.00-ON-U23-STD
Android_version	8.1.0
Android_SDK_Level	27
Android Security Patch Level	July 5, 2021
Linux_kernel	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 Firmware: CNSS-PR-4-0-00713/01050102
<b>Wifi</b>	
<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-4-0-00713/01050102
<b>Flash_Size</b>	16G /32G
<b>RAM_Size</b>	2G
<b>GPS</b>	MPSS.JO.3.0.c13-00016-8937_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>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>WebView</b>	89.0.4389.90

<b>Fingerprint</b>	Zebra/TC25/TC25FM:8.1.0/01-28-07.00-ON-U23-STD/210714:user/release-keys, Zebra/TC20/TC20RT:8.1.0/01-28-07.00-ON-U23-STD/210714:user/release-keys, ZebraTC20/TC20RD:8.1.0/01-28-07.00-ON-U23-STD/210714:user/release-keys, Zebra/TC20/TC20KB:8.1.0/01-28-07.00-ON-U23-STD/210714:user/release-keys,
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## 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 (NGMS) to Nougat (NGMS)
  - 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	July 19, 2021