



# Release Notes for Zebra TC20 and TC25 Android Oreo 01-48-12.00-ON-U09-STD Release (Non-GMS)

## Highlights

The details of the Android Non-GMS Oreo release 01-48-12.00-ON-U09-STD that covers TC20/TC25. Please see, Device Compatibility under Addendum Section for more details.

## Software Packages

Package Name	Description
IRIS_DELTA_UPDATE_01-48-12.00-ON-U09-STD.zip	Delta Package Update

## Security Updates

This build is Compliant up to [Android Security Bulletin](#) of October 5, 2021(Critical Patch Level: July 01, 2023).

### LifeGuard Update 09:

- ❖ IRIS\_DELTA\_UPDATE\_01-48-12.00-ON-U09-STD.zip (NGMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: July 01, 2023).
- Device update version: 9
- WebView Version: 114.0.5735.61

### LifeGuard Update 07:

- ❖ IRIS\_DELTA\_UPDATE\_01-48-12.00-ON-U07-STD.zip (Non-GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: April 01, 2023).
- Device update version: 7
- WebView Version: 111.0.5563.115

### LifeGuard Update 06:

- ❖ IRIS\_DELTA\_UPDATE\_01-48-12.00-ON-U06-STD.zip (Non-GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: January 01, 2023).
- Device update version: 6
- WebView Version: 108.0.5359.61

### **LifeGuard Update 05:**

- ❖ IRIS\_DELTA\_UPDATE\_01-48-12.00-ON-U05-STD.zip (Non-GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: October 01, 2022).
- Device update version : 5
- Fusion Version : FUSIONLITE\_QA\_1\_0.0.0.030\_O
- Radio Version : QA\_1\_00.0.0.024\_O
- Middleware Version : QA\_1\_00.0.0.015\_O
- Webview Version : 105.0.5195.77

### LifeGuard Update 04:

- ❖ IRIS\_DELTA\_UPDATE\_01-48-12.00-ON-U04-STD.zip (Non-GMS)

Updated below mentioned components:

- Android security patch level: October 05, 2021 (Critical Patch Level: July 01, 2022).
- Scanning\_Framework : v23.1.9.2

### Resolved Issues

- SPR45458 – Resolved an issue wherein MSI Check digit is shown in decoded data even though the MSI Check digit option is not enabled.
- SPR46337 - Updated the Vodafone Portugal APN settings as per Vodafone request.

### LifeGuard Update 02:

- This LG patch is applicable for **01-48-12.00-ON-U00-STD** BSP version. The LG Patch includes the following updated components.

S.N.	Component	Version
1.	Android security patch level	October 5, 2021 (Critical Patch Level: April 01, 2022)

### Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	01-48-12.00-ON-U09-STD
Android Version	8.1.0
Security Patch level	October 5, 2021(Critical Patch Level:July 01, 2023)

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](http://techdocs.zebra.com), [developer.zebra.com](http://developer.zebra.com)

Component / Description	Version
<b>Build_version</b>	01-48-12.00-ON-U09-STD
<b>Android_version</b>	8.1.0
<b>Android_SDK_Level</b>	27
<b>Android Security Patch Level</b>	October 5, 2021(Critical Patch Level: July 01, 2023)
<b>Linux_kernel</b>	3.18.71
	FUSIONLITE_QA_1_0.0.0.030_O  Radio: QA_1_00.0.0.024_O  Application: QA_1_00.0.0.009_O  Middleware: QA_1_00.0.0.015_O  Firmware: CNSS-PR-4-0-00718/01050102
<b>Wifi</b>	
<b>Platform</b>	Qualcomm MSM8937
<b>Scanning_Framework</b>	23.1.9.2
<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.c13-00032-8937_GENNS_PACK-1
<b>MMS</b>	8.1.0
<b>RIL_Version</b>	Qualcomm RIL 1.0

BT_Pairing_Utility	3.15
Datawedge	7.3.34
Camera	2.0.002
PTT	3.1.54
RxLogger	5.4.12.0
StageNow	3.4.1.5
Zebra Data Service	7.0.9.1001
Zebra Software License Manager	3.2.0
EMDK	7.3.23.2323
IMEI SV Number	12
OEM Config	9.0.0.565
DDT	V1.17.0.9
WebView	114.0.5735.61
Fingerprint	Zebra/TC25/TC25FM:8.1.0/01-48-12.00-ON-U00-STD/ 220112:user/release-keys, Zebra/TC20/TC20RT:8.1.0/01-48-12.00-ON-U00-STD/ 220112:user/release-keys, ZebraTC20/TC20RD:8.1.0/01-48-12.00-ON-U00-STD/ 220112:user/release-keys, Zebra/TC20/TC20KB:8.1.0/01-48-12.00-ON-U00-STD/ 220112: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 (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 01, 2023