

# Release Notes – Zebra Android Oreo 01-23-19.00-ON-U15-STD Release (AOSP)

## Highlights

The details of the Android AOSP Oreo release 01-23-19.00-ON-U15-STD that covers family of products including TC52, TC57, TC72, TC77, TC52HC, PS20x, TC8300, MC9300, VC8300, L10A, ET51, and EC30. Please see, Device Compatibility under Addendum Section for more details.

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

## Software Packages

Package Name	Description
HE_INCREMENTAL_UPDATE_01-23-19.00-ON-U15-STD.zip	LG Package Update

## Security Updates

This build is Compliant up to [Android Security Bulletin](#) of March 01 2020.

## LifeGuard Update 15:

- This LG patch is applicable for 01-23-19.00-OG-U00-STD BSP version. The LG Patch includes the following updated components.

- MX: - 10.0.0.47
- DataWedge: - 8.0.28
- StageNow-Client: - 4.2.1.2
- Enterprise Keyboard: - 2.2.2.3
- EMDK: - 8.0.7.2618
- DDT: - 1.20.0.1
- Event injection Service: - 4.3.0.0
- Zebra Folder: - 9.3
- MX Proxy Framework: - 10.0.0.38
- Wi-Fi: - FUSION\_QA\_2\_1.11.0.007\_O
- OSX: QCT.81.8.25.16

## Fixes

- Fixed: SPR39006 – Agreeing location consent pop up internally when location mode is changed via Wireless Manager CSP
- Fixed: SPR35665 – Resolved an issue wherein Google keyboard settings are not persisting through a reboot when configured directly after factory reset
- Fixed: SPR38534 – Resolved an issue where disconnection is observed in Fast Transition mode when device is in suspend state.

- Fixed: SPR38970 – Resolved an issue wherein battery swap is blocked by sensors that are actively sending data.
- Fixed: SPR39082 – Resolved an issue wherein Intermittent loss of Ethernet connection is observed.
- Fixed: SPR39360 – Resolved an issue wherein scanner doesn't work sometimes after reboot when IMS switch happens.
- Fixed: SPR38880 – Resolved an issue wherein device gets stuck on bootup screen.
- Fixed: SPR38885 – Package Installation allowed in signature whitelist mode as long as the package and its corresponding signature are whitelisted.
- Fixed: SPR38870 – Resolved an issue wherein device will not decode US4STATE with hardware picklist mode enabled.
- Fixed: SPR39332 – Resolved an issue wherein scanner doesn't work for scanning multiple barcodes in SUV screen.
- Fixed: SPR38739 – Resolved an issue wherein mp3 files parsing was failed which results in some mp3 files not being streamed and played on the devices.
- Fixed: SPR38869 – Resolved an issue wherein setting a pin causes the user to be prompted to complete the Pin wizard.
- Fixed: SPR38748 – Resolved an issue wherein multicast voice traffic reception is improved.
- Fixed: SPR39807 - User is prompted to accept 'Allow display over other apps' permission.

## **New Features**

- Added Workstation Dock Enhancements & PH10 Support.
- Added Ability to Provision network credentials as part of Android Setup Wizard.
- Added support for Google QR Code integration with device scanner.
- Added support for Raw and IrCOMM modes for existing IrDA SW package.
- Added secure DataWedge Intent APIs for device and data security.
- Added support of Dynamic Staging to mass create barcodes from a single profile.
- Added Ability to easily add support for new File Transfer protocols.
- Added support to Control Access to Sensitive MX Functions.
- Added MC93 Cold Storage SKUs Heater Control Logic Optimization.
- Added Scanner Frame support for ET51.
- Added support for Connectivity analysis retry in Worry Free Wifi.

## **LifeGuard Update 09:**

- This LG patch is applicable for 01-23-19.00-ON-U00-STD BSP version. The LG Patch includes the following updated components.
  - Zebra Data Services: 7.0.0.1005
  - Zebra Content Provider: 1.0.0.1197
  - OemInfo: 9.0.0.64
  - WLAN: FUSION\_QA\_2\_1.11.0.005\_O

## **Fixes**

- Fixed: SPR37522 – Resolved an issue wherein Location mode is displayed incorrectly when GMS Restricted is enabled.
- Fixed: SPR38154 – Resolved an issue wherein Battery Hot Swap not showing application icon in lock-down launcher when enrolled in MDMs.
- Fixed: SPR38093 – Resolved an issue wherein storage manager service crashes intermittently
- Fixed: SPR37268 – Resolved an issue wherein network traffic from some applications were not using proxy when configured using PAC.

## New Features

- Added support to publish OS update status to EMM Clients via OEMInfo.

## LifeGuard Update 08:

- This LG patch is applicable for 01-23-19.00-ON-U00-STD BSP version.

### New Features

- Added Multi-Barcode enhancement: 'multibarcodes' max count increased from 10 to 100.
- Added Staging from an SD card or USB device works fine when multiple .bin files are present on the storage medium.
- Added Support for barcode symbologies Dutch 3S.
- Added Support Multi Barcode Support in Datawedge.

### Fixes

- Fixed: SPR37201 – Resolved an issue wherein devices are unable to scan after modified system settings.
- Fixed: SPR38418 – Resolved an issue wherein Right trigger Press caused SimulScan to continuously scan.
- Fixed: SPR38749 – Resolved an issue wherein Mobile Network menu gets disabled when the SettingsMgr CSP disabled Airplane mode.
- Fixed: SPR38330 – Resolved an issue wherein devices are not able to disable Application Notification from SettingsMgr.
- Fixed: SPR38250 – Resolved an issue where BT Packet data arrive out of order.
- Fixed: SPR38575 – Resolved an issue where the Decoder parameter 'checkdigit' is not distinguished for "USPOSTNET" and "US PLANET".
- Fixed: SPR38534 – Resolved an issue where WiFi occasionally stops after FT roam while device is suspended.
- Fixed: SPR38416 – Resolved an issue where WAN devices with inactive Verizon sim card would automatically enter Airplane mode.
- Fixed: SPR38778 – Resolved an issue wherein EMDK for Xamarin SAM API throws exception with 253 bytes payload key roll-over.

## LifeGuard Update 06:

- This LG patch is applicable for 01-23-19.00-ON-U00-STD BSP version. The LG Patch includes the following updated components.
  - Device Central: 2.1.0.15
  - DataWedge: 7.5.56
  - EMDK: 7.5.25.2525
  - MXMF version: 9.2.6.1
  - OSX version: QCT.81.8.19.1
  - Simulscan Version: 4.0.5 SimulScanEngine: 3.3.0
  - StageNow: 4.0.0.7
  - Zebra Data Service: 3.6.0.1034
  - OemInfo: 9.0.0.39
  - Scanning Framework: 23.1.2.0

### New Features

- Added Keyless Navigation (w/ VoiceWedge)
- Added support for Individual wake up sources.

- Added support for Simulscan on SE4770 and removing of yellow screen
- Added support for Firefly (RS5100).
- Added support for OCR A/B in Scanning Framework.

### Fixes

- Fixed: SPR37773 – Resolved an issue wherein devices are unable to login to captive portal with Android Webview.
- Fixed: SPR37465 – Resolved an issue wherein customer app gets freeze when the app posts numerous Toast at once.
- Fixed: SPR38119 – Resolved an issue wherein writing through serial data was taking more time.
- Fixed: SPR38330 – Resolved an issue wherein user was unable to disable Application Notifications via StageNow.
- Fixed: SPR38316 – Resolved an issue wherein device WAN mode changes due to thermal mitigations.
- Fixed: SPR38416– Resolved an issue wherein device with inactive sim card will automatically enter Airplane mode.
- Fixed: SPR38166: Resolved an issue wherein device is unable to set static IP via StageNow/EMDK.
- Fixed: SPR38426– Resolved an issue wherein StageNow is unable to set manual Proxy without any bypass.

### Cellular carrier supported

AT&T, Verizon Wireless, Sprint, Telstra and ROW (Rest of World)

### Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	X1-23-19.00-ON-U15-STD
Android Version	8.1.0
Security Patch level	March 1, 2020
Linux Kernel	4.4.78
Component Versions	Please see Component Version under Addendum section

## Installation

### Requirements and Instructions

- [Installation and setup instructions](#)

### Upgrade Options

Below table provides detailed information on shortest path to upgrade based on current version of software.

Current Software Version on Device	Steps to get to this Release	Comments
01-12-01.00-ON-Uxx 01-13-20.00-ON-Uxx 01-18-02.00-ON-Uxx	Apply Full Package Update HE_FULL_UPDATE_01-23-19.00-ON-U00-STD.zip <b>Followed by</b> Apply Incremental Update HE_INCREMENTAL_UPDATE_01-23-19.00-ON-U15-STD.zip	Incremental Update
01-21-18.00-ON-Uxx	<b>Option 1:</b> Apply Delta Package Update HE_DELTA_UPDATE_01-21-18.00-ON_TO_01-23-19.U00-ON.zip <b>Followed by</b> Apply Incremental Update HE_INCREMENTAL_UPDATE_01-23-19.00-ON-U15-STD.zip <b>Option 2:</b> Full Package Update Apply HE_FULL_UPDATE_01-23-19.00-ON-U00-STD.zip <b>Followed by</b> Apply Incremental Update HE_INCREMENTAL_UPDATE_01-23-19.00-ON-U15-STD.zip	<b>Option #1 is recommended</b> as size of Delta package update is smaller compared to Full Package Update
01-23-19.00-ON-Uxx	Apply Incremental Update HE_INCREMENTAL_UPDATE_01-23-19.00-ON-U15-STD.zip	

## Known Constraints and Workarounds

- WiFi sleep policy set to “Always” (Android O limitation)
- GMS Restricted Mode is introduced in this release. Customers using Enable/Disable GMS apps may want to consult the settings types for App Manager, Power Manager and GMS Manager in Zebra's Tech Docs. Functionality originally in Enable/Disable GMS apps (App Manager) has been moved to GMS Restricted Mode (GMS Manager).
- "Get Status for all Wake-Up sources" is returning "Enabled" when all Wake-up sources are disabled, some devices operate at 320 dpi. This screen configuration results in the majority of the AOSP applications displaying content consistently in both portrait and landscape modes. In most cases if the application layout is not optimal in landscape it is optimal in portrait or vice versa. However, there are a few applications that do not render

properly in either portrait or landscape. In this case the suggested alternative is to change the display size using the bundled Display Settings APK or use settings menu to change the display size and font size (settings > Display > Advanced settings > Display Size / Font Size).

## Addendum

### Device Compatibility

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

Device Family	Part Number	Device Specific Manuals and Guides
TC52	TC520K-2PEZU4P-CN TC520K-2PEZU4P-CN TC520K-2HEZU4P-CN	<a href="#">TC52 Home Page</a>
TC72	TC720L-0ME24B0-CN	<a href="#">TC72 Home Page</a>

PS20	PS20J-B2G2CN00	PS20J-P4G2CN00	<a href="#">PS20 Home Page</a>
TC77	TC77HL-5ME24BG-CN		<a href="#">TC77 Home Page</a>
TC57	TC57HO-1PEZU4P-CN		<a href="#">TC57 Home Page</a>
VC8300	VC83-08SOCQBABBACN	VC83-08FOCQBABBACN	<a href="#">VC8300 Home Page</a>
TC8300	TC83B0-6005A510CN TC83B0-2005A510CN TC83B0-3005A510CN TC83B0-2005A61CCN TC83B0-3005A61CCN	TC83BH-2205A710CN TC83BH-3205A710CN TC83B0-4005A610CN TC83B0-5005A610CN	<a href="#">TC8300 Home Page</a>
L10AW	RTL10B1-xxAxxX0x00CN (China) Note: 'x' Stands for wild card for different configurations.		<a href="#">L10 Home Page</a>
MC9300	MC930B-GSEEG4CN MC930B-GSCDG4CN MC930B-GSEEDG4CN MC930B-GSADG4CN	MC930B-GSACG4CN MC930P-GFADG4CN MC930P-GFCDG4CN MC930P-GFEDG4CN	<a href="#">MC9300 Home Page</a>
ET51	ET51CE-L21E-00CN		<a href="#">ET51 Home Page</a>
ET56	NA		<a href="#">ET56 Home Page</a>
EC30	EC300K-2SA1ACN		<a href="#">EC30 Home Page</a>

## Component Versions

Component / Description	Version
ActiveEdge	2.5.16
AnalyticsMgr	2.4.0.1254
Battery Management	Version: 1.4.2
Battery Swap [Enhanced]	Version: 2.2.0
Bluetooth Pairing Utility	Version 3.16
DataWedge	8.0.28

Device Central	2.1.0.15
Diagnostic Tool	1.20.0.1
EMDK	8.0.7.2618
Enterprise Keyboard	2.2.2.3
Fota	1.0.0.8
License Manager and License Agent	version 3.2.0 and version 3.2.0.3.2.0
MSRN	2.01
MX	MXMF version: 10.0.0.47
NFC	NFC_NCIHALx_ARC0.8.4.0
OSX	QCT.81.8.25.16
PTT Express	3.1.42
Rxlogger and RxLoggerUtility	Version 5.4.16.0 and Version: 1.3.3.11
Scanning Framework	23.1.6.0
Simulscan	"Version: 4.0.5"
WorryFree Wifi Analyzer	WFW_QA_2_1.11.0.001_O
StageNow	4.2.1.2
WLAN	FUSION_QA_2_1.11.0.007_O

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