

# Release Notes – Zebra Android Pie 02-11-01.00-PN-U00-STD Release (AOSP)

## Description

OS Version 02-11-01.00-PN-U00-STD is the first full AOSP (non-gms) release on Android Pie (9.0.0) that covers family of products including TC52, TC72 & PS20. Please see, Device Compatibility under Addendum Section for more details.

## Software Packages

Package Name	Description
HE_FULL_UPDATE_02-11-01.00-PN-U00-STD.zip	Full Package Update includes all components
HE_DELTA_UPDATE_01-18-02.00-ON_TO_02-11-01.U00-PN.zip	Delta Package that can be used to go from Oreo 01-18-02.00-0N-U00-STD to this release (02-11-01.00-PN-U00-STD)

## Security Updates

This software release is compliant up to [Android Security Bulletin](#) of July 01 2019.

## New Features

- “Add network” UI in Wi-Fi has an explicit option to mark a network as hidden network in Android 9.0. If the Wi-Fi network is hidden, enable this option while adding network using “Add network” UI.
- Adaptive battery: The adaptive battery feature in Android P limits the battery usage for the infrequent used apps, there by extending battery life.
- Adaptive brightness: The improved Adaptive Brightness feature in Android P automatically manages the display to match the user's preferences for brightness level so one gets the best experience, whatever the current lighting environment.
- Brightness level slider control: The slider control now represents absolute screen brightness rather than the global adjustment factor. That means user may see it move on its own while Adaptive Brightness is on. This is expected behavior.
- Notification UI enhancement: User can disable the notification by long pressing the notification and clicking 'Stop Notifications'.
- Images captured by Camera application when saved in external SD card will not be stored in DCIM folder, instead they will stored in application sandbox.

## Fixes

- Fixed: SPR36161 where WLAN Country Code was missing.
- Fixed: SPR36188 where in PS20, "Page reload" of Extenda app causes EB to stop working properly if device has been in cradle for extended period of time (1hr).
- Fixed: SPR37306 wherein TC52 was failing to decode some specific customer barcodes.
- Fixed: SPR37124 wherein after applying ADF Rule, Last character in the barcode is also being removed in DW app.
- Fixed: SPR36925 wherein EMDK service was unable to release/recover scanner object when an ANR occurs in an EMDK based App.
- Fixed: SPR37353 wherein EMOJII BUTTON was not getting disabled on EKB.
- Fixed: SPR37060 wherein scan failure occurred due to race condition between DataWedge and EMDK application for acquiring scanner resources.
- Fixed: SPR36967 wherein TC51N, CFE 18 downgrade to CFE17 will cause "Error Zebra Plugin Stopped", issue was in DA App.
- Fixed: SPR36768 where EHS Hostname in title is not reflecting an updated host-name after reboot.
- Fixed: SPR36514 where app being killed due to heavy CPU usage on device.
- Fixed: SPR37368 where MDM behavior around set passcode will prompt user repeatedly after reboot.
- Fixed: SPR36661/37083 where PS20 not able to communicate with cradle after power cut off.
- Fixed: SPR36234 where PS20 cannot read information from the cup (3 slot cradle).

## Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	02-11-01.00-PN-U00-STD
Android Version	9
<a href="#">Security Patch level</a>	July 1, 2019
Linux Kernel	4.4.153
Component Versions	Please see Component Version under Addendum section

## Installation

### Requirements and Instructions

[https://www.zebra.com/content/dam/zebra\\_new\\_ia/en-us/software/operating-system/helios/pie-os-update-instructions.pdf](https://www.zebra.com/content/dam/zebra_new_ia/en-us/software/operating-system/helios/pie-os-update-instructions.pdf)

### 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
01-13-20.00-ON-Uxx 01-21-18.00-ON-Uxx	Apply Full Package Update HE_FULL_UPDATE_02-11-01.00-PN-U00-STD.zip	
01-18-02.00-ON-Uxx	<p><b>Option 1:</b> Apply Delta Package Update HE_DELTA_UPDATE_01-18-02.00-ON_TO_02-11-01.U00-PN.zip</p> <p><b>Option 2:</b> Full Package Update Apply HE_FULL_UPDATE_02-11-01.00-PN-U00-STD.zip</p>	<p><b>Option #1</b> is recommended as size of Delta package update is smaller compared to Full Package Update</p>

## Known Constraints

Below are Known Constraints and workaround if applicable.

- For PS20, if the cradles are power cycled while the PS20 terminals are on it, the terminals are observed to stop charging. Charging resumes if the device is taken out and placed back or if it is rebooted.  
This issue will be resolved in the September lifeguard update.
- In devices running Android Pie where an EMM implements Lock Task Mode, there is a potential issue when the power button is pressed that no items will appear in the power button menu while the device is in Lock Task Mode. This issue only occurs if the EMM has not implemented certain flags to enable the power button menu actions. Global actions dialogue during Lock Task mode must be enabled.  
Reference:  
[https://developer.android.com/reference/android/app/admin/DevicePolicyManager.html#LOCK\\_TASK\\_FEATURE\\_GLOBAL\\_ACTIONS](https://developer.android.com/reference/android/app/admin/DevicePolicyManager.html#LOCK_TASK_FEATURE_GLOBAL_ACTIONS)  
It is recommended that you contact your EMM to see if this API change will impact accessing power button menu actions. Some EMMs have implemented methods to suppress Activities that may mitigate the issue. Please check with your EMM.
- In devices running Android Pie after an Enterprise Reset there is a possibility of the SOTI Agent having issues initiating and running on the device. This is due to inconsistencies with Process I.D assignments performed by the operating system after an enterprise reset. We recommend in Zebra devices running Android Pie that an XML file with an interim fix be pushed and set on the device prior to performing an Enterprise Reset to ensure that this issue does not occur. Please contact your SOTI or Zebra support rep to receive a copy of the XML file.  
In September SOTI will release an agent that will solve the problem programmatically and will not require any XML or manual intervention.
- If VPN is configured with 'Always On' on a device, on a reboot, there is an intermittent occurrence of device not connecting to VPN server. User can workaround the issue by configuring the VPN as not 'Always On'.
- TC72, TC52 devices fails to detect Type 1 NFC card (Mifare standard 4K/SLI-X 1024/TI Tag-it plus 2048/NFC Tag Type 1 NFC cards).  
This issue will be resolved in the September lifeguard update.

## Addendum

### Device Compatibility

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

<b>Device Family</b>	<b>Part Number</b>	<b>Device Specific Manuals and Guides</b>
TC52	TC520K-2PEZU4P-CN	Visit Manuals Section under <a href="#">TC52 Home Page</a>
TC72	TC720L-0ME24B0-CN	Visit Manuals Section under <a href="#">TC72 Home Page</a>
PS20	PS20J-B2G2CN00 PS20J-P4G2CN00	Visit Manuals Section under <a href="#">PS20 Home Page</a>

## Component Version

Functional Area	Versions
ActiveEdge	2.7.4
AnalyticsMgr	2.4.0.1251
Audio (Microphone and Speaker)	0.12.0.0
Battery Management	Version : 1.4.2
Battery Swap (Enhanced)	Version : 2.1.1
Bluetooth Pairing Utility	Version 3.16
PS20 Cradle	Utility: 1.01 FWUpdater: 1.0
DataWedge	7.4.46
Device Central	2.2.0.8
Diagnostic Tool	v1.18.0.3
EMDK	7.4.23.2423
Enterprise Browser	2.0.5.0
Enterprise Keyboard	2.2.2.3
Fota	1.0.0.5
License Manager and License Agent	3.2.0
MSRN	2.01
MX	MXMF version: 9.1.1.36
NFC	NFC_NCIHALx_AR40.9.3.0
OSX	QCT.90.9.2.27
PTT Express	3.1.42
Rxlogger	Version 6.0.0.0
Scanning Framework	22.1.17.0
Simulscan	Version: 4.0.5 SimulscanEngine 3.2.2
WorryFree Wifi Analyzer (WFW / SmartMU)	WFW_QA_2_3.0.0.009_P
StageNow	3.4.1.4
Touch Panel	TC52 : 1.8.3-Finger-2-0 TC72 : 2.0.1-Finger-1-0 PS20: v08
WLAN	FUSION_QA_2_1.1.0.013_P
Zebra BlueTooth	2.1
Zebra Data Service	9.0.0.1109
Zebra Volume Control (ZVC)	2.2.0.8
Zebra Folders	9.1

## Revision History

<b>REV</b>	<b>DESCRIPTION</b>	<b>DATE</b>
1.0	Initial Release	Aug 8, 2019