

# Release Notes – Zebra Android Pie 02-21-09.00- PN-U00-STD Release (NGMS)

## Highlights

The details of the Android GMS Pie release 02-21-09.00-PN-U00-STD that covers family of products including TC52, TC72, PS20x. 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_FULL_UPDATE_02-21-09.00-PN-U00-STD.zip	Full Package Update
HE_DELTA_UPDATE_02-11-01.U00-PN_TO_02-21-09.U00-PN.zip	Delta Package Update

## Security Updates

This build is Compliant up to [Android Security Bulletin](#) of June 01 2020. Final release will contain newer security updates.

## Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	02-21-09.00-PN-U00-STD
Android Version	9
Security Patch level	June 1, 2020
Linux Kernel	4.4.153
Component Versions	Please see Component Version under Addendum section

## New Features

- Added support for Tianma display panel for TC72. This image is backward compatible with existing Innolux display.

## 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
02-11-01.00-PN-Uxx	<p><b>Option 1:</b> Apply Delta Package Update HE_DELTA_UPDATE_02-11-01.U00-PN_TO_02-21-09.U00-PN.zip</p> <p><b>Option 2:</b> Full Package Update Apply HE_FULL_UPDATE_02-21-09.00-PN-U00-STD.zip</p>	<p><b>Option #1 is recommended</b> as size of Delta package update is smaller compared to Full Package Update</p>

**NOTE:** The TC72 devices with Tianma display are not allowed to downgrade to Android P BSP 2.11.01 or older Oreo versions below BSP 01.30.04. To identify the display type on TC72 devices user can check the ro.config.device.display property using getprop command from adb shell –

For TC72 Innolux device – [ro.config.device.display]: [900]

For TC72 Tianma device – [ro.config.device.display]: [512]

#### Known Constraints and Workarounds

Below are Known Constraints and workaround if applicable.

- 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'.

## 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	<a href="#">TC52 Home Page</a>
TC72	TC720L-0ME24B0-CN	<a href="#">TC72 Home Page</a>
PS20	PS20J-B2G2CN00 PS20J-P4G2CN00 PS20J-P4H1CN00	<a href="#">PS20 Home Page</a>

### Component Versions

Component / Description	Version
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	Version: 2.1.1
Bluetooth Pairing Utility	Version 3.16
PS20 Cradle	Utility 1.01 FWUpdater : 1.0
DataWedge	7.6.30
Device Central	2.2.0.8
Diagnostic Tool	1.19.0.3

EMDK	7.4.23.2423
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:9.1.1.36
NFC	NFC_NCIHALx_ARC0.8.4.0
OSX	QCT.90.9.2.30
PTT Express	3.1.42
Rxlogger and RxLoggerUtility	Version 6.0.0.0 and Version: 1.3.3.11
Scanning Framework	22.1.17.0
Simulscan	Version: 4.0.5 and SimulscanEngine 3.2.3
WorryFree Wifi Analyzer	WFW_QA_2_1.10.0.009_O
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_2.1.1.0.018_P
Zebra Bluetooth	2.1
Zebra Data Service	9.0.0.1210
Zebra Volume Control	2.2.0.8
Zebra Folders	9.1
Webview	66.0.3359.158