

Release Notes – Zebra Android Pie

02-21-09.00-PN-U12-STD Release (NGMS)

Highlights

The details of the Android NGMS Pie release 02-21-09.00-PN-U12-STD that covers family of products including 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_DELTA_UPDATE_02-21-09.00-PN-U12-STD.zip	LG Package Update

Security Updates

This build is Compliant up to [Android Security Bulletin](#) of June 01, 2021.

LifeGuard Update 12:

➤ This LG patch is applicable for 02-21-09.00-PG-U00-STD BSP version.

○ This LG Patch includes following updated components.

- **WLAN Firmware** : 1.0.1.599.0
- **Chromium** : 90.0.4430.91
- **PTT Express** : 3.1.54

○ **New Features**

- None

○ **Resolved Issues**

- SPR-43314 : Resolved an issue wherein PS20 not able to use scanner after update to LG06

○ **Usage Notes**

- None

LifeGuard Update 10:

> This LG patch is applicable for 02-21-09.00-PN-U00-STD BSP version.

- o **New Features**

- Added support for LSM6DSM Gyroscope/accelerometer Sensor on TC72 and TC52 ..

- o **Resolved Issues**

- None

- o **Usage Notes**

- o To identify the LSM6DSM Gyroscope/accelerometer sensor on the device users can check the **ro.config.device.gyro** property using getprop command from adb.
- o Devices with LSM6DSM sensor will have [ro.config.device.gyro] = 8. o Devices with LSM6DSM sensor will list sensor type as LSM6DSM on "Settings-->About phone-->SW components-->Gyroscope" or "Settings-->About phone-->SW components >Accelerometer".

- o **Not advised to install on TC52 ,TC52-HC devices.**

LifeGuard Update 09:

> This LG patch is applicable for 02-21-09.00-PN-U00-STD BSP version.

The LG Patch includes the following updated components.

- **WLAN** Firmware: 1.0.1.510.0
- **MXMF** 9.4.0.4
- **OSX** release version QCT_90_9.6.44
- **Chromium/Android System WebView** 80.0.3987.162

- o **Resolved Issues**

- SPR- 41891: Resolved an issue wherein network was getting permanently disabled
- SPR- 43087 : Resolved an issue wherein Screen Stays black when power key is pressed.

LifeGuard Update 06:

➤ This LG patch is applicable for 02-21-09.00-PN-U00-STD BSP version.

The LG Patch includes the following updated components.

- **WLAN FUSION_QA_2_1.1.0.022_P**
- **MXMF 9.4.0.3**
- **Chromium and Webview 86.0.4240.198**

LifeGuard Update 02:

➤ This LG patch is applicable for 02-21-09.00-PN-U00-STD BSP version.

The LG Patch includes the following updated components.

- **WLAN FUSION_QA_2.1.1.0.021_P**
- **MXMF 9.4.0.2 Fixes**
- SPR40289– Resolved an issue where disconnection is bluetooth audio connection with HS3100.
- SPR 37883 – Resolved an issue where PAC file with toLowerCase/toUpperCase were failing.

LifeGuard Update 01:

➤ This LG patch is applicable for 02-21-09.00-PN-U00-STD BSP version.

The LG Patch includes the following updated components.

- **WLAN FUSION_QA_2_1.1.0.020_P**

- **DataWedge** 7.4.56
- **EMDK** 7.4.26.2426
- **Osx** QCT.90.9.6.43
- **MXMF** 9.4.0.1
- **Stagenow** 3.4.1.5

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	02-21-09.00-PN-U12-STD
Android Version	9
Security Patch level	June 01, 2021
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.

Important Links

- **Requirements and Instructions**
- [Installation and setup instructions](#)
 - ✦ [Zebra Techdocs](#)

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	Apply Full Package Update HE_FULL_UPDATE_02-21-09.00-PN-U00-STD.zip Followed by Apply Delta Update HE_DELTA_UPDATE_02-21-09.00-PN-U12-STD.zip	
02-21-09.00-PN-Uxx	Apply Delta Package Update HE_DELTA_UPDATE_02-21-09.00-PN-U12-STD.zip	

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.

- 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 work around the issue by configuring the VPN as not 'Always On'.
- As per SPR40881 "Android P does not supports RS5100. Customer needs to upgrade to Android 10".

Addendum

Device Compatibility

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

Device Family	Part Number	Device Specific Manuals and Guides
TC72	TC720L-0ME24B0-CN	TC72 Home Page
PS20	PS20J-B2G2CN00 PS20J-P4G2CN00 PS20J-P4H1CN00	PS20 Home Page

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
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DataWedge	7.4.56
Device Central	2.2.0.8
Diagnostic Tool	NA
EMDK	7.4.26.2426
Enterprise Keyboard	2.2.2.3
Fota	1.0.0.5
License Manager and License Agent	version 3.2.0 and version 3.2.0

MSRN	2.01
MX	MXMF version:9.4.0.4
NFC	NFC_NCIHALx_AR40.9.3.0
OSX	QCT.90.9.6.44
PTT Express	3.1.54
Rxlogger and RxLoggerUtility	Version 6.0.0.0 and Version: 2.0.5.0
Scanning Framework	22.1.17.0

Simulscan	Version: 4.0.5 and SimulscanEngine 3.2.3
WorryFree Wifi Analyzer	WFW_QA_2_3.0.0.009_P
StageNow	3.4.1.5
Touch Panel	TC72 : 2.0.1-Finger 1-0 PS20 : v08

Zebra Data Service	9.0.0.1210
Zebra Volume Control	2.2.0.8
Zebra Folders	9.1
Webview	80.0.3987.162
WLAN	FUSION_QA_2_1.1.0.023_P
Zebra Bluetooth	2.1

Revision History

REV	DESCRIPTION	DATE
1.0	Initial draft release	07/19/2021
2.0		