ZEBRA TC53 Android 13 Handheld Barcode Scanner Instructions

ZEBRA TC53 Android 13 Handheld Barcode Scanner

Contents

Highlights

This Android 13 NGMS release 13-20-16.00-TN-U00-STD-ATH-04 covers TC53 family of products.

Please see device compatibility under the Addendum section for more details.

Software Packages

Package Name	Description
AT_FULL_UPDATE_13-20-16.00-TN-U00-STD-ATH-04.zip	Full package update
ATH_DELTA_UPDATE_13-17-29.00-TN-U00-STD_TO_13-20-16.00- TN-U00-STD.zip	Delta package update from 13- 17-29.00-TN-U00 TO 13-20- 16.00-TN-U00-STD release *Applicable only for TC53*

Security Updates

This build is compliant up to **Android Security Bulletin** of February 01, 2024

LifeGuard Update 13-20-16.00-TN-U00

- This LG patch is applicable for 13-20-16.00-TN-U00-STD-ATH-04 BSP version.

New Features

- None

Resolved Issues

- SPR-52690: Resolved an issue wherein HC20/HC50 call audio heard by recipient was muffled or distant

sounding.

- ZPAY – Fix for where in TC53/TC58 back-to-back transaction failure due to 6001 error.

Usage Notes

- HC20/HC50: To ensure optimal voice call audio performance, Zebra strongly recommends using this release or newer, as users may encounter call quality degradation in older releases.
- This LG patch is applicable for 13-17-29.00-TN-U00-STD-ATH-04 BSP version.

New Features

- **Scanner Framework:**
    - Update Google MLKit Library version to 16.0.0.
    - Updated Firmware for SE55 Scan Engine to improve autofocus
    - Added the missing "Zebra USB Scanner" in DWDemo.
- **DataWedge**
    - New Picklist + OCR feature: allows capture of either a barcode or OCR (single word) by centering the desired target with the aiming crosshair or dot. Supported on both Camera and Integrated Scan Engines.
- **MX 13.1:**
  Note: Not all MX v13.1 features are supported in this release.
    - Access Manager adds the ability to:
        - Pre-grant, pre-deny or defer to the user access to "Dangerous Permissions".
        - Allow the Android system to automatically control permission to seldom-used apps.
    - Power Manager adds the ability to:
        - Turn off the power on a device.
        - Set Recovery Mode Access to features that could compromise a device
- **Wireless Analyzer:**
    - Stability fixes in Firmware and Wireless Analyzer stack.
    - Improved analysis reports and error handling for Roaming and Voice Features.
    - UX and other bug fixes.
- **Auto PAC Proxy:**
    - Added support for Auto PAC Proxy feature.

Resolved Issues

- SPR-51101: Resolved an issue wherein Scanning bar using USB scanner printing multiple characters.
- SPR51430: Resolved an issue wherein TC58 device reboots in certain location of o2 carrier in UK.
- SPR-50986: Resolved an issue wherein DataWedge profile was not generated correctly.
- SPR51099 – Resolved an issue where scanner was not enabled to scan SUW bypass barcode.
- SPR51331 – Resolved an issue where Scanner remained in DISABLED status after suspending and resuming the device.
- SPR-51244 / SPR-51525 : Resolved an issue wherein ZebraCommonIME/DataWedge getting set as primary Keyboard.
- SPR-51146: Resolved an issue wherein alarm can be accidentally dismissed via upcoming alarm notification

Usage Notes

- None
- This LG patch is applicable for 13-14-21.00-TN-U00-STD-ATH-04 BSP version.

New Features

- This is an upgrade Android 13 NGMS release for TC53 family of products.
- Initial Beta Release of Zebra Showcase App (Self Updatable) explores the latest features and solutions, a platform for new demos built on Zebra Enterprise Browser.
- DWDemo has moved to the ZConfigure folder.
- Added support for WiFi/WAN prioritization feature.

Resolved Issues

- SPR-47751 – Resolved an issue with setting the default launcher when Settings app is blacklisted.
- SPR-48241 – Resolved an issue with System UI crash with MobileIron's DPC launcher.
- SPR-47645 – Resolved an issue with EHS suddenly disappears and Quickstep shows up.
- SPR-48826 – Resolved an issue with the notification bar size.
- SPR-48066 – Resolved an issue where Excessive debug is filling log files.
- SPR-50027 – Resolved an issue with keyboard for not switching to numeric layout.
- SPR-50407 – Resolved an issue with EHS, which prompted to select launcher frequently.
- SPR-47994 – Resolved an issue with EHS where update of title name was slower at every reboot.
- SPR-48592 – Resolved an issue with EHS where tapping on home button prompts to select either EHS or default launcher even though EHS is set as default home app.
- SPR-50081 – Resolved an issue with device which was stopping the scan function, and the only resolution was to power off the device and pull the battery out of the device.
- SPR-50146 – Resolved an issue where PTT button remapping to power button was not possible.
- SPR-48568 – Resolved an issue with Advanced Device Setup, which was staying in Progress for more than 24 hours.
- SPR-50379 – Resolved an issue in JS PDF, where disabling ALL Camera was not working.
- SPR-48518 – Resolved an issue with StageNow, where FileMgr CSP was not downloading from customer URL over VPN access private server.
- SPR-50983 – Resolved an issue where MX app used to fail while clearing recent apps.
- SPR-50161 – Resolved an issue with Wifi, where many pings are getting lost during comparison on roaming tests.
- SPR-48699 – Resolved an issue where WLAN interface was getting disconnected frequently from Wi-Fi network with Altai AP.
- SPR-48780 – Resolved an issue with USB Host manager where it returns invalid configuration rule error.
- SPR-48738 – Resolved an issue with HostMgr where modified hostname not responding to ping.
- SPR-48779 – Resolved an issue with RxLogger configuration (config.json) that cannot be overwritten.
- SPR 48803 – Resolved an issue where MX UI Setting LockOverrideButton throws exception Feature is not supported.

- SPR-50041 – Resolved an issue with Datawedge was not supporting RFID Input.
- SPR-50665 – Resolved an issue where user was not able to use JS Umar QuickTime Identifier WIFI.
- SPR-50766 – Resolved an issue with MX which was reporting failure when deploying XML due to permission error.
- SPR-50709 – Resolved an issue with SOTI script reset password was changing screen lock to password instead of PIN.
- SPR-51487 – Resolved an issue with TC53 – Low device audio.
- SPR-50519 – Resolved an issue with Battery Manager shows decommission battery notification.
- SPR-50571 – Resolved an issue with Screen rotation where manual screen rotation doesn't rotate the screen.
- SPR-51356 – Resolved an issue with where WPA PEAP Wi-Fi profile could not be created without Domain name.
- SPR-48475 – Resolved an issue with Bluetooth connectivity issues with DS3678 scanners.
- SPR-50487 – Resolved an issue with Connectivity issues with RS5100.
- SPR-50667 – Resolved an issue with Bluetooth disconnections with payment pin terminal YOXIMO.
- SPR-48401 – Resolved an issue with VoLTE profile not working.
- SPR-50350 – Resolved an issue where user not able to add Private APN using GPRS Mgr CSP.
- SPR-51213 – Resolved an issue with wrong APN proxy & mms setting for Swisscom.
- SPR-50775 – Resolved an issue with Private 5G network not working.
- SPR-46893 – Resolved an issue with Stage Now config does not set custom APN to default, when creating multiple custom APN with different Profile name and APN name for Verizon and AT&T and setting the Custom APN as default.

Usage Notes

Version Information

Below Table contains important information on versions

Description	Version
Product Build Number	13-20-16.00-TN-U00-STD-ATH-04
Android Version	13
Security Patch level	February 01, 2024
Component Versions	Please see Component Versions under Addendum section

Device Support

The products supported in this release are TC53 family of products.
Please see device compatibility details under Addendum Section.

OS Update Installation Requirements and Instructions

To update from A11 to this A13 release, user must follow below steps

- **Step-1**: Device MUST have A11 May 2023 LG BSP Image 11-21-27.00-RN-U00-STD version or a greater A11

BSP version installed which is available on **zebra.com** portal.

- **Step-2**: Upgrade to this release A13 BSP version 13-20-16.00-TN-U00-STD-ATH-04

Known Constraints

- Delta OTA packages are not supported in Recovery mode. To apply Delta OTA packages, use StageNow/MDM solution.
- Staging via NFC is not supported.
- DHCP Option 119 & Auto PAC Proxy feature is currently not supported in this release. Zebra is working on enabling these 2 features in future Android 13 releases.
- User will not be able to push files into below listed directories using adb command. Alternately, EMM clients or StageNow can be used to push files into below listed directories.
    - /enterprise/
- Customers using Airwatch Proprietary staging method which includes generation of barcodes from Airwatch console and using external FTP as staging servers not ready for this release, Zebra will enable this feature in upcoming release of Airwatch agent.
- Video conference over WEB RTC (Real Time Communication) interpreting solution not working for lower resolution (SPR-48680).
- Bluetooth SSI mode is not working via customer app using EMDK with DS3678 (SPR-50159)
- Workstation Connect is not supported on this release, compatibility with this solution will be introduced in future Android 13 releases.
- Caution to Dimensioning / Premium SKU customers: Please upgrade to 1.3.0.0 Dimensioning Software Bundle before upgrading to A13.
    - It is required to upgrade dimensioning software to 1.3.0.0 BEFORE upgrading the device from A11 to A13. (If software bundle is not upgraded, Dimensioning update feature will be broken).
- Zebra apps do not support Android Work Profiles or any COPE Mode features. Zebra is working on enabling these features in future Android 13 releases.

Important Links

- **Installation and setup instructions** (If the link does not work, please copy It to browser and try)
- **Zebra Techdocs**
- **Developer Portal**

Addendum

Device Compatibility

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

Device Family	Part Number		Device Specific Manuals and Guides
TC53	TC5301-0T2K6B1000-CN		**TC53**

Component Versions

Component / Description	Version
Linux Kernel	5.4.233-qgki
Analytics Mgr	10.0.0.1006
Android SDK Level	33
Audio (Microphone and Speaker)	0.21.1.0
Android Webview	116.0.5845.114
Battery Manager	1.5.3
Bluetooth Pairing Utility	5.3
Chromium	116.0.5845.114

Zebra Camera App	2.3.1
DataWedge	13.0.121
EMDK	13.0.7.4307
Files	13
License Manager and License Agent	6.0.29 and 6.0.62.5.0.3
MXMF	13.1.0.65
NFC and NFC FW	PN7160_AR_11.02.00 and 12.50.9
OEM info	9.0.0.1005
OSX	QCT6490.130.13.7.16
Rxlogger	13.0.12.45
Scanning Framework	39.67.3.0
StageNow	13.0.0.0
Wireless Analyzer	WA_A_3_1.2.0.005_T
WLAN	FUSION_QA_4_1.3.0.010_T FW: 1.1.2.0.1075.1
WWAN Baseband version	Z240130A_039.1-00178
Zebra Bluetooth	13.3.7
Zebra Volume Control	3.0.0.93
Zebra Data Service	10.0.7.1001
Zebra Device Manager	13.1.0.65
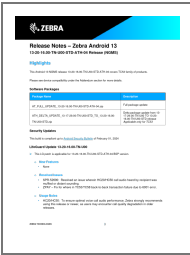
Revision History

Rev	Description	Date
1.0	Initial release	February 09, 2024

ZEBRA TECHNOLOGIES

Documents / Resources

	ZEBRA TC53 Android 13 Handheld Barcode Scanner [pdf] Instructions TC53 Android 13 Handheld Barcode Scanner, TC53, Android 13 Handheld Barcode Scanner, Handheld Barcode Scanner, Barcode Scanner

References

- **Welcome | Zebra Developer Portal**
- **Zebra | TechDocs**
- **Zebra Technologies | Visible. Connected. Optimized. | Zebra**
- **Android Security and Update Bulletins | Android Open Source Project**
- **TC5X Series Mobile Computers | Zebra**
- **User Manual**