
Release Notes - TC55 Android KK Update Image v2.65 GSM Worldwide (Non-GMS)

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Introduction

TC55 is a ruggedized device based on Android for the enterprise market that blends the capabilities of a smart phone with those of a traditional enterprise PDA.

TC55 has a number of enterprise-grade features, including a touch-screen that can be used with gloves, support for stylus input for signatures, barcode capture capability and IP67 rating for dust and water protection.

It also features Zebra Extensions (MX) to make the Android operating system more enterprise ready, with security enhancements and hooks for device management tools, and is designed for a longer lifecycle than the typical smart phone.

TC55 is designed in response to customer feedback from using consumer-grade smart phones in the workplace, especially with the bring-your-own-device (BYOD) trend, where employees use their own choice of device for work.

With TC55 the workers can capture practically any type of data — from bar codes and signatures to photos, videos and NFC — improving on the job efficiency and customer service. The screen is optimized for Enterprise viewing, helping ensure the battery lasts a full shift.

And with a drop, tumble and environmental sealing specification you can count on, it has the durability required to serve your field workers for years.

This SW release contains TC55 Android KitKat Rebranded SW version offering new advanced features, increasing operation performance for the customer satisfaction.

New Features in this Release

APA Features for TC55 KK:

1. Zebra Volume Control (ZVC) is an APA directive to standardize volume control for all Android products (KitKat and newer). ZVC replaces the default Android volume control which is accessible from Settings->Audio->Volume. When working in conjunction with AudioVolUIMgr CSP, ZVC also provides a means for our customers' IT administrator to put upper and lower limits on the volume sliders to prevent users from changing volume to the lowest or highest settings.
2. Extended Battery Information APA feature adds to and standardizes battery information presented to user in "Battery Information" UI. Information will include the critical parameters of the battery.
3. NONSD CARD STORAGE PATHS: Way to define and enforce a standard that ensures that the experiences of using these built-in areas, that are transient (e.g. /data) and persistent (e.g. /enterprise) and the folders within them are as similar as possible across devices for device users, application developers, and device administrators.
4. APA DHCP options: Gives the user a way to configure various DHCP options via CSP
5. APA OTA packaging: User will have the option to upgrade and downgrade between BSPs with incremental/rollback packages.

Persistence feature: Whole enterprise folder is persisted across upgrade from JB to KK customers. Persistence of User configuration is supported via MDM only.

SPR Fixes:

28385 - Customer needs a solution to change the device hostname. Port of SPR#26191
28007 - JB to KK upgrade 02.52 Stagenow / MX not working an Factory Reset currently not detailed in RN is needed to get everything working
28182 - TC55/v2.52 StageNow Config will cause MX framework to fail, only resolvable with factory reset.
28374 - TC55 KK + EHS: NFC does not work after a reboot, screen lock/unlock sequence needed to restore NFC functionality
27835 - DataWedge GS1 Security Level - Invalid setting, and un-settable setting
28334 - TC55KK NFC Tags not reading in application, worked in JB Builds
27587 - TC55 DNS not accessible over VPN - following of SPR#27543
28504 - EHS interfere with scan key setting

Security Patch Info:

CVEs	Comment
CVE-2015-3829	Integer overflow in libstagefright processing MPEG4 covr atoms when chunk_data_size is SIZE_MAX.
CVE-2015-3827	Integer underflow in libstagefright when processing MPEG4 covr atoms.
CVE-2015-3824	Integer overflow in libstagefright when parsing the MPEG4 tx3g atom.
CVE-2014-8610	Externally Reported Low Severity Security Vulnerability: SMS Resend Vulnerability in Android.
CVE-2014-8609	SECURITY: Don't pass a usable Pending Intent to 3rd parties.
CVE-2014-8507	Externally Reported Moderate Security Issue: SQL Injection in WAPPushManager.
CVE-2014-7911	Add additional checks in ObjectInputStream.
CVE-2015-3873	Vulnerabilities in libstagefright Could Allow Remote Code Execution
CVE-2015-3872	
CVE-2015-3871	
CVE-2015-3868	
CVE-2015-3867	
CVE-2015-3869	
CVE-2015-3870	
CVE-2015-3823	
CVE-2015-6598	
CVE-2015-6599	
CVE-2015-6600	
CVE-2015-6603	
CVE-2015-6601	
CVE-2015-3876	
CVE-2015-6604	
CVE-2015-3874	Vulnerabilities in Sonivox Could Allow Remote Code Execution
CVE-2015-3875	Vulnerabilities in libutils Could Allow Remote Code Execution
CVE-2015-6602	
CVE-2015-3877	Remote Code Execution Vulnerability in Skia
CVE-2015-6608	The patch includes additional checks to validate word length.
	The patch includes additional checks to properly fail memory allocations and verify the size value used to allocate the memory that is read from a file.
CVE-2015-6609	Remote Code Execution Vulnerability in libutils
CVE-2015-1538	Integer overflows during MP4 atom processing
CVE-2015-1539	An integer underflow in ESDS processing
	SPR28147- StageFright Security Patch/ Android OS Vulnerable to Text Hack
CVE-2015-0973	Vulnerability in libpng: Overflow in png_Read_IDAT_data
	SIGSEGV in jmem-ashmem could cause remote code execution
CVE-2015-1536	Vulnerability in Bitmap unmarshalling
CVE-2015-3824	Integer overflow in libstagefright when parsing the MPEG4 tx3g atom
CVE-2015-3826	Unbounded buffer read in libstagefright while parsing 3GPP metadata allows reading arbitrary memory
CVE-2015-3827	Integer underflow in libstagefright when processing MPEG4 covr atoms
CVE-2014-6041	Multiple integer overflows in libstagefright SampleTable
CVE-2014-6041	MediaFocusControl builds PendingIntent using its own uid and can send broadcast to any component.

CVE-2014-6041	Execute arbitrary code as any uid >= 1000 from adb shell
CVE-2014-6041	ArrayMap append() method can create duplicate entries in Bundle objects
CVE-2014-6041	Memory corruption in libskia
CVE-2014-6041	Buffer overflow in libskia
CVE-2014-6041	Settings app allows sending protected broadcasts
CVE-2014-6041	sqlite race conditions leads to world-readable permissions
CVE-2014-0972	Unprivileged GPU command streams can change the IOMMU page table
CVE-2013-6282	Missing access checks in put_user/get_user kernel API
CVE-2015-3636	SPR28252 - Use-after-free vulnerability in kernel handling of ping sockets

Description

1. Android KitKat 4.4.3
2. Kernel 3.4.0
3. DataWedge v 3.1.29
4. Scanning Framework v5.46.0
5. MX.v4.4.4
6. WLAN FUSION_QA_1.02.0.0.028
7. RIL 1.0.10
8. Modem 20015326.48
9. MSP v07.08.85
10. SOTI client v12.1.0 Build 23469
11. StageNow v 2.1.1.1425
12. SimulScan v1.11.1
13. EMDK 3.1.38

Contents

1. T55N0KXXVRUEN265.zip – TC55 KK Non-GMS OS Recovery Update package
2. ETSIT55N0KRUEN265.zip - TC55 KK Non-GMS ETSI OS Recovery Update package for JB customers migrating to KK. This will preserve the Enterprise Partition & ETSI WLAN Power table
3. FCCT55N0KRUEN265.zip - TC55 KK Non-GMS FCC OS Recovery Update package for JB customers migrating to KK. This will preserve the Enterprise Partition & FCC WLAN Power table
4. T55N0KXXVREEN265.zip – TC55 KK Non-GMS Enterprise Recovery reset package
5. T55N0KXXVRFEN265.zip – TC55 KK Non-GMS Factory Recovery reset package
6. T55N0KXXVAUEN265.apf – TC55 KK Non-GMS OS Airbeam package for MSP deployment
7. ETSIT55N0KAUEN265.apf - TC55 KK Non-GMS ETSI OS Airbeam package for MSP deployment
8. FCCT55N0KAUEN265.apf - TC55 KK Non-GMS FCC OS Airbeam package for MSP deployment
9. T55N0KXXVAEEN265.apf – TC55 KK Non-GMS Airbeam package for Enterprise reset
10. T55N0KXXVAFEN265.apf – TC55 KK Non-GMS Airbeam package for Factory reset

Device Compatibility

This software release has been approved for use with the following devices

SKUs supported:

TC55AH-KC11ES-ET

TC55AH-KC11EE-ET

TC55AH-KJ11ES-ET

TC55AH-KJ11EE-ET
TC55AH-K011ES-ET
TC55AH-K011EE-ET
TC55BH-K011EE-TW
TC55BH-K011ES-TW
TC55BH-KC11EE-TW
TC55BH-KC11ES-TW
TC55BH-KJ11EE-TW
TC55BH-KJ11ES-TW
TC55AH-KJ11ES
TC55AH-KJ11EE
TC55AH-KJ11ES-BL
TC55AH-KJ11EE-BL
TC55BH-KJ11ES
TC55BH-KJ11EE
TC55BH-KJ11ES-NS
TC55BH-KJ11EE-NS
TC55BH-KJ11JS-NS
TC55BH-KJ11JE-NS
TC55BH-KC11ES-NS
TC55BH-KC11EE-NS
TC55BH-K011ES-NS
TC55BH-K011EE-NS
TC55BH-K011EE
TC55BH-K011ES
TC55BH-KC11ES
TC55BH-KC11EE
TC55AH-KC11ES
TC55AH-KC11EE
TC55AH-KC11ES-BL
TC55AH-KC11EE-BL
TC55AH-K011ES
TC55AH-K011EE
TC55AH-K011ES-BL
TC55AH-K011EE-BL
TC55BH-KC11JS-NS
TC55BH-KC11JE-NS
TC55BH-KJ11KS-NS
TC55BH-KJ11KE-NS
TC55BH-K011KS-NS
TC55BH-K011KE-NS
TC55BH-KC11KS-NS
TC55BH-KC11KE-NS
TC55BH-KJ11MS-NS
TC55BH-KJ11ME-NS
TC55BH-K011CS-NS
TC55BH-K011CE-NS
TC55BH-K011MS-NS

TC55BH-K011ME-NS
 TC55BH-KJ11CS-NS
 TC55BH-KJ11CE-NS
 TC55BH-KC11CS-NS
 TC55BH-KC11CE-NS
 TC55BH-KC11MS-NS
 TC55BH-KC11ME-NS

And all TC55AH/TC55BH Jellybean SKUs. TC55 JB GMS terminals can be upgraded to KK GMS only. Reason: Customers who have GMS can only upgrade to GMS as devices are sold (SKU) based upon GMS/NON GMS

Installation Requirements

This SW is intended for the TC55AH and TC55BH devices

Installation Instructions

For upgrading from older version of KK

1. T55N0KXXVRUEN265.zip – TC55 KK Non-GMS OS Recovery Update package
 - Connect the USB cable from your PC to the device and enable USB mass storage mode on the device.
 - On your PC you should see an internal and SD card (if SD card is present) appears in the File Explorer and copy the recovery update zip file to any storage.
 - Press and hold on the device the Power button, Scan/Action button and Vol+ until the screen is turned OFF
 - Release the Power and Scan/Action buttons and continue to hold Vol+ button
 - The device should enter to Recovery update mode
 - Release Vol+.
 - Click on Vol+ or Vol- to navigate and select appropriated storage
 - Click on on Scan/Action button to select the option
 - Click on Vol+ or Vol- to navigate to the recovery update zip file
 - Click on on Scan/Action button to select the recovery update zip file
 - Reboot the device
2. T55N0KXXVRFEN265.zip – TC55 KK Non-GMS Factory Reset recovery package – Use only if you want to wipe Data and Enterprise partition
3. WLAN Region file Recovery update per Country Region – see the table below (not required for TC55 KitKat devices out of factory)

To Upgrade from JB to KK:

ETSI customers should use: ETSIT55N0KRUEN265.zip

FCC customers should use: FCCT55N0KRUEN265.zip

Country Group (Region)	Country Codes	WLAN Region File
USA, Canada, Puerto Rico, American Virgin Island, Anguilla, Cayman Islands, Guam,	US, CA, PR, VI, AI, KY, GU,	TC55KKFCCWLV07.zip

Costa Rica,	CR,	
Dominican Republic,	DO,	
El Salvador,	SV,	
Ecuador,	EC,	
Hong Kong,	HK,	
Sri Lanka,	LK,	
Singapore,	SG,	
Chile,	CL,	
India,	IN,	
Mexico,	MX,	
Venezuela,	VE,	
Barbados,	BB,	
Panama,	PA,	
China	CN,	
Lebanon,	LB,	
Malaysia,	MY,	
Ukraine,	UA,	
Israel,	IL,	
Tunisia,	TN,	
Egypt,	EG,	
Morocco,	MA,	
South Korea,	KR,	
Vietnam,	VN,	
Indonesia,	ID,	
Bolivia,	BO,	
British Virgin Islands,	VG,	
Guyana,	GY,	
Guatemala,	GT,	
Honduras,	HN,	
Jamaica,	JM,	
Algeria,	DZ,	
Nigeria,	NG,	
Kenya,	KE,	
Pakistan,	PK,	

4. MSP OS package update

Please refer Mobility Service Platform deployment guide for instruction for the deployment of the following files:

1. TC55 KK Non-GMS OS Airbeam package
2. TC55 KK Non-GMS Airbeam package for Enterprise reset
3. TC55 KK Non-GMS Airbeam package for Factory reset

Notes

- a. **Please note that only Enterprise partition and WLAN power table will be restored for JB to KK customers if ETSI or FCC package is used. All other settings of the device can be persisted only via MDM**
- b. **Visual Voice Mail (VVM) is not supported for all carriers.**
- c. **Enterprise Enabler is not needed for TC55 KK OS.**
- d. **Once upgraded to KK, downgrade to JB is not supported.**

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1. T55N0KXXVRUEN265.zip
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5. T55N0KXXVREEN265.zip
6. T55N0KXXVAUEN265.apf
7. ETSIT55N0KAUEN265.apf
8. FCCT55N0KAUEN265.apf
9. T55N0KXXVAFEN265.apf
10. T55N0KXXVAEEN265.apf

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