

TC8000 OPERATING SYSTEM GA1 RELEASE 01-00-54 WITHOUT GMS RELEASE NOTES

INTRODUCTION

What makes the TC8000 so special? Everything. It's the ground-breaking all new warehouse mobile computer designed to deliver revolutionary productivity increases in the warehouse. In fact, on average, it saves 14% per worker versus the traditional form factors. And it's the only device on the market that simplifies it all — how your workers physically use the device and interact with your warehouse application. The TC8000 minimizes motion with an innovative scan angle that eliminates the thousands of times your workers need to tilt their device to see the screen. We integrated flexible handheld and hands-free scanning for an extra productivity boost — another industry handheld first. It's an amazing 33 percent lighter than the traditional device to minimize fatigue. And then we did something completely unprecedented by a device manufacturer — we integrated a tool that allows you to automatically transform your legacy Terminal Emulation (TE) “green screens” into elegant, graphics-based All-touch TE screens that are not only highly intuitive, but also dramatically reduce the number of interactions required to complete a task — no coding and no modifications to your host application are required. The result? Less time to complete the job and increased productivity. The TC8000 — the next big thing in warehouse mobility, only from Zebra.

- 8.02.11a/b/g/n connectivity for anywhere, anytime access to information
- Zebra's Mobility Extensions (Mx)
- Mobility DNA, a suite of mobility enabling applications, development tools and utilities
- Most advanced scan engine with longer range data capture capability
- Rugged and ready for every day enterprise use inside and outside the four walls
- Standard SKUs have 1GB RAM, 4GB Flash. Premium SKUs have 1GB RAM, 8GB Flash, and add a gyroscope, e-compass, camera, and NFC.



DESCRIPTION

TC8000 GA1 Release 01-00-54 **WITHOUT GMS**

COMPONENT DESCRIPTION AND VERSIONS

Component / Description	Version
Product Build Number	01-23257-K-01-54-00-MV
Android Version	4.4.3
Linux Kernel	3.4.0
a-boot	
Android SDK Level	19
Platform (TI/MPA/ etc)	Qualcomm - APQ8060A Pro
Bluetooth Stack	NA
Partition Table	NA
Flash Size	4 or 8GB
RAM Size	1GB
MSP Package	7.08.85 (Included for Airwatch support only)
Scanning	5.41.0
SimulScan	2.5 SimulScanEngine 1.10.1
Datawedge	3.1.24
EMDK Service	3.1.38
Mx / OSX	MXMF: 4.4.34 / OSX_QCK_4.4-4
WiFi	Fusion_QA_1.02.0.0.033

PTT Express	3.1.20
Touch FW	V0008
RxLog	3.0.0.51
Mlog	v06.52 / Service v06.52
B2M	1.0.0.218
Bluetooth Pairing Utility	3.3
DataAnalytics	1.01.2107
File Browser	1.13
Stage Now	2.1.1.1425
App Gallery	2.1.2
Battery Swap	N/A
Tech Docs	None
WWAN	N/A
RIL	N/A
TS.25	N/A
WLAN FW	MAAAAANAZW1240301
GPS	N/A
NFC	V1.0.6
Sensors (Accel, Gyro, Light, Prox)	N/A
Camera	N/A
MSR	N/A

MobiControl	12.2.0. Build 23469
Wavelink Velocity	1.0.1.2044
Print Station	1.3
Tap and Pair	2.0
Zebra Utilities	2.0.5152

Features Added/Supported

- Included rebranding changes for Zebra/Symbol namespace
- Included changes for APA v1 feature content
 - Storage and non-storage path
 - Key remapping
 - Battery Extras
 - RTC clock caching
- Support Bluetooth 4.0 (Supports both Classic and Bluetooth LE) with Broadcom Bluetooth Stack (Bluedroid)
- Included
 - StageNow client
 - Simulscan Demo
 - PTT Express
 - B2M Elemesz
 - Data Analytics
 - App Gallery
 - SOTI MobiControl Stage
 - Wavelink Velocity Terminal Emulation
 - Zebra Printer Utilities, Tap and Pair, Print station
- Improved Imager scan response

Android security patches

FREAK attack patch for SSL

Integer overflow vulnerabilities in libstagefright

CVE-2015-1538, CVE-2015-1539

Use-after-free vulnerability in kernel handling of ping sockets

CVE-2015-3636

Google Android Partner Security Bulletin 2015 #11 Integer Overflow in libcutils

CVE-2015-1528

Google Android Partner Security Bulletin #14

CVE-2015-3873

CVE-2015-3872

CVE-2015-3871

CVE-2015-3867

CVE-2015-3869

CVE-2015-3870

CVE-2015-6598

CVE-2015-6599

CVE-2015-6600

CVE-2015-6601

CVE-2015-3876

CVE-2015-6604

CVE-2015-3874

CVE-2015-3875

CVE-2015-6602

CVE-2015-3877

Component Release Notes:

MX4.4 Feature List:

Feature	Brief Description
Clear Clipboard	Clearing the data copied into clipboard
Enable/Disable Clipboard	Enable/Disable the clipboard features to cut/copy/paste
Factory Reset	Wipe - Data+Enterprise+Cache
Enterprise Reset	Wipe - Data+Cache
Full Device Wipe	Wipe - Data+Enterprise+Cache+Internal SD+External SD
Enable/Disable Enterprise Reset in Settings App	API to Enable/Disable the Enterprise Reset UI in Settings Application
Display OSX Version	OSX version can be seen in Settings => About Phone => SW Components => OSX version
Enable Disable AppInfo Access	Enabling and disabling , App info from settings
Allow/Disallow App to submit XML	Add/delete/query packages which are allowed to SubmitXML to MxMgtFw
Enable Disable UMS/PTP/MTP	MassStorage,MediaTransfer and PTP modes can be Blocked and Unblocked
Enable Disable External USB Storage	Enable/Disable Mounting of External USB Pen-drive storage with device
Enable/Disable Browser	Enable/Disable Native Browser Address Bar
Enable/Disable access to Applications Section of Settings UI	Hide Apps section of Settings Application
Initiate NTP Sync	Enable/Disable/Initiate NTP
Ethernet Settings	Enable/Disable & TurnOn/TurnOff

Enable/Disable Use of Background Data	Enable/Disable Background data in SIM devices
Auto Correction	Enable/Disable the ability of auto correction of words in soft keyboard
Wifi	Enable/Disable Wifi
Wwan	Enable/Disable Wlan
Safe Mode	Enable/Disable Safe mode
Unknown sources	Enable/Disable Unknown sources UI
Enable/Disable Home Key	Enable/Disable Home Key
BT Pairing Pop up	Enable/Disable BT pairing pop up
Sdcard Usage	Enable/Disable Sdcard Usage
Enable/Disable Power button instantly lock	Enable/Disable Power button instantly lock UI
Turn On/Off Power button instantly lock	Turn On/Off Power button instantly lock
Enable Disable Airplane mode	Enable/Disable Airplane mode UI
Turn On/Off Airplane Mode	Turn On/Off Airplane Mode
Enable/Disable Power button menu items	Enable/Disable menu displayed when power button is long pressed
Hide/unhide Power button menu	Hide/Unhide menu displayed when power button is displayed

PTT Express 3.1.20

1. Major Features

- a. After changing the talk-group or changing the status, the PTT Express user interface would be on the fore-ground to facilitate confirmation of the changed talk group and to allow user to continue making PTT calls when CallKeyConfig is 0 (on-screen buttons).

- b. Recovery update procedure : Copy the Recovery update package for PTT Express installation/uninstallation for KK to the internal storage of respective device and perform the recovery update as per the procedures mentioned in the OS recovery update guidelines
- c. To change the settings of the PTT Express client, modify the ptt_settings.xml file located at /enterprise/device/settings/ptt.
- d. To enable Debug Logs, follow below steps:
 1. Pull ptt_settings.xml from /enterprise/device/settings/ptt/ folder.
 2. Edit< setting name="logLevel">Debug
 3. Check for /storage/sdcard0/PTT folder.
 4. Logs will be created with DEVICE_MODEL_MAC_ADDRES_PTT_log.txt
- e. The previous log file is saved as DEVICE_MODEL_MAC_ADDRES_PTT_log.txt.bck.
- f. The default log level is set to 'None' (to avoid issue 74744). Update value of 'log_level' in ptt_settings.xml to enable the logging.
- g. Log file should not be renamed or deleted while logging is active. Copy the log file to PC or other folder if snapshot log file has to be created.
- h. Use 'adb' to copy the logs to PC.
- i. CDR log file will be created, if not exist, only when enableCDR is true and the first call happens on channel whose CDR is true or Private call.
- j. PTT HEADSET Usage Notes:
- k. Group call is initiated by pressing (and holding) headset button. Due to special PC implementation, there will be 600ms delay after user presses the headset button. User shall start speaking only after talk permit tone is played.
- l. Private call is initiated by pressing headset button in following sequence: Down, Up and Down (and hold). These 3 clicks shall occur within 600ms. If there are more than 3 clicks within 600ms, then the clicks will be discarded and nothing will happen.

m. Enabling display of call statistics - The PTT Express client provides a toggling option on the settings page to enable/disable the display of toast messages showing call statistics.

n. Mute functionality - The PTT express client allows itself to be muted and unmuted using the mute button on the main dialog, or using the key configured in the ptt_settings.xml or using intents. When the client is muted, it is indicated on the UI and on the status bar. While in Mute state, the client's audio and tones are muted and PTT key events ignored. The Mute functionality is not persistent across the reboots or application restarts. However the Mute functionality is persistent across Enable and Disable of the service.

o. Audio feedback Functionality – The PTT Express client allows voice feedback on Channel and Profile Switch. The configuration “audioFeedback” should be set as Default to enable the Audio feedback. Based on the language value set in the profiles, the audio would be played, in that specific language. The value of the language is set as locale string defined in <http://developer.android.com/reference/java/util/Locale.html>. Only installed languages are supported and the language list would be listed in accessibility settings on the device.

p. PTT supports Airwatch and SOTI MDM for deploying configuration changes.

q. Full-duplex client co-existence - The PTT Express client supports a configurable option “fullDuplexClientCoexistence” to coexist with full duplex WAN or VOIP client. There is another configurable option “vibrateOnVoiceCall” which allows full duplex incoming calls to vibrate when PTT is in call. The following is applicable when “fullDuplexClientCoexistence” is set to true:

r. When there is an outbound call made or when an inbound call is accepted on the full duplex client, PTT Express enters into co-existence mode by muting itself and showing yellow icon on the status bar. It also stops playing out any tones or calls and ignores key requests for PTT calls.

s. When a full duplex call terminates, PTT Express exits the co-existence mode to resume normal operations.

t. Few full duplex clients allows PTT Express to exit coexistence mode when its call is put on hold and then enter back to coexistence mode when the call moves out of hold state.

2. SPR fixes

1. SPR 28025 Disabling PTT express via SOTI.

3. Known issues

- a. The coexistence solution is dependent on the announcement of states done by the full duplex client. Few variations mentioned beneath have been observed in which case PTT Express client may not be able to enter or exit from coexistence mode.
- b. While coexisting with few versions of VOIP clients and the WAN client, PTT Express cannot come out of coexistence state when a call is put on hold.
- c. Specific version of Jabber client is not seen to announce [MODE RINGTONE](#) due to which PTT Express cannot honor “vibrateOnVoiceCall” settings.
- d. Certain full-duplex clients are at times seen to fail in announcing their call states which can result in PTT Express not entering/exiting coexistence mode as expected. It can be recovered when a succeeding inbound/outbound established call is terminated. In some cases, a warmboot might be required
- e. After Reset (or) reboot key presses will not be detected for initial 30 secs.

DataWedge 3.1.24

Updated

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Fixed

EMBPD00163103 - Datawedge demo doesn't show options when menu hard key is pressed.

EMBPD00176367 - Bottom line of buttons on DW demo needs to be pressed for long time.

EMBPD00178656 - First barcode does not get decoded on DWdemo when device kept in Landscape.

Exclusions:

- USB Mass Storage support deprecated in KitKat
- MSP not supported
- Workforce Connect will be supported in a future release



Power Precision Plus UI will be supported in a future release

CONTENTS

File	Description	Details
TC8K0K300PUWW10054.zip	SFW: FullPkgUpd,AND,KK,v10054,RELEASE	Full Software Update
TC8K0K3E0REWW10054.zip	SFW: EntResetPkgUpd,AND,KK, RELEASE	Wipes all partitions/folders except Enterprise partition
TC8K0K3F0RFWW10054.zip	SFW: FacResetPkgUpd,AND,KK, RELEASE	Wipes all partitions/folders including Enterprise partition

DEVICE COMPATIBILITY

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

Device	Operating System
TC80Nx - All SKUs	Android 4.4.3

INSTALLATION REQUIREMENTS

This Software can be used with compatible devices listed above



INSTALLATION INSTRUCTIONS

1. Attach the USB cable to the TC8000, then attach the cable to the PC.
2. To update the TC8000 software, download the Full Package Update from Zebra Support Central to your PC.
The file name is TC8K0K300PUWW10054.zip
3. Copy the .zip file above from your PC to your TC8000's storage.
4. Put the TC8000 into Recovery Mode using the following steps:
 - Hold the Power Key until "Reset" option appears, then release the power key
 - Tap the "Reset" option in the menu and then immediately hold the "Power key" and "Scan Key" until the Zebra boot screen is displayed.
5. Once on the Recovery Screen, scroll up/down using "Volume Keys" +/- to "Apply update from internal storage" and press the "Scan Key" to select
6. Next, scroll up/down using "Volume Keys" +/- to the location where you copied the files and press the "Scan Key" to select the desired folder
7. Highlight the zip file you wish to install, and press the "Scan key" to select
8. Once the install completes, you will be back at the Recovery Mode screen.
9. If you wish to reset the TC8000 to factory settings, repeat the above process with the Factory or Enterprise reset package:
 - TC8K0K3F0RFWW10054.zip (Factory Reset Package),
 - TC8K0K3E0REWW10054.zip (Enterprise Reset Package).
10. Once you finish installing the required files, you will be back at the Recovery Mode screen. Select "reboot system now" with the "Scan Key". The TC8000 will reboot, then you will see "Android is upgrading..." and then you will see the Android home screen.

PART NUMBER AND RELEASE DATE

TC8K0K300PUWW10054
TC8K0K3E0REWW10054
TC8K0K3F0RFWW10054

Dec 18, 2015