

TC8000 OPERATING SYSTEM BSP 01.00.71 MR1 WITHOUT GMS REV A 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 MR1 Maintenance Release 01-23257-K-01-71-00-MV **WITHOUT GMS**

CONTENTS

File	Description
TC8K0K300PUWW10071.zip	SFW: FullPkgUpd,AND,KK,v10071,RELEASE
TC8K0K3E0REWW10071.zip	SFW: EntResetPkgUpd,AND,KK, RELEASE
TC8K0K3F0RFWW10071.zip	SFW: FacResetPkgUpd,AND,KK, RELEASE

COMPONENT DESCRIPTION AND VERSION

Component / Description	Version
Product Build Number	01-23257-K-01-71-00-MV
Android Version	4.4.3
Android security patch level	Jan 2016
Linux Kernel	3.4.0
a-boot	
Android SDK Level	19
Platform	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	6.11.00
Datawedge	3.3.16
Handwriting Recognition	NA
Mx / OSX	MXMF: 4.4.34 / OSX_QCK_4.4-4
MMS	NA
WiFi	Fusion_QA_1.02.0.0.034
Mlog	v06.52 / Service v06.52
PTT Express	3.1.20
EMDK Service	4.0.4.0
SimulScan	2.5 SimulScanEngine 1.11.1
RxLogger	3.0.0.52
Touch FW	V0009
Zebra Volume Control	1.1.13
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	NA
Tech Docs	None
WWAN	NA
RIL	NA
TS.25	NA
WLAN FW	MAAAAANAZW1240301
GPS	NA
NFC	NA
Sensors (Accel, Gyro, Light, Prox)	NA
Camera	NA
MSR	NA
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

- - Zebra Volume Control
 - Updated Mobility DNA components (EMDK, Scanner Framework, DataWedge, RxLogger, Simulscan)
 - Battery Manager App

- Improved camera performance
- Improved stability
- WLAN improvements

Included

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- StageNow client
- Simulscan demo
- PTT Express
- B2M Elemez
- Data Analytics
- App Gallery
- SOTI MobiControl Stage
- Wavelink Velocity Terminal Emulation
- Zebra Printer Utilities, Tap and Pair, Print station

Release Notes for Updated Components:

Scanner Framework version 6.11.00 New Features and Fixed Issues

Fixed memory leak

Support "Document Capture" Acquisition mode in SE47xx undecoded engine for "Image Capture only" mode selection

Added Trigger modes "Timed Hold", "Timed Release", and "Press and Release" for SE4750SR/MR and SE965 scanners

Fixed firmware update bug related to UI

Added Image capture support with VF support.

Added Imager firmware update support in TC8000 devices

Added Scanner framework support for Data Capture Analytics

Fixed Camera Scanner VF & Flash lock on Stage Now app

Datawedge version 3.3.16 New Features and Fixed Issues

Fixed the DataWedge crash when suspend resume test was run with EMDK Barcode Sample with continuous scanning enabled

Fixed a memory leak found during the TC8000 stability testing.



Added new Data Capture Plus. Replacement for Data Capture Panel.

Fixed SimulScan beam/viewfinder still active after suspend and resume the device.

Fixed screen rotation affecting the DataWedge decoders UI.

Fixed Bluetooth disconnect on exit feature causing certain barcode input menu options to be empty.

Fixed failure to set profile.

Fixed Toast message displayed is not clear.

Fixed device does not show the "Keep enabled on suspend" option for first time after changing back to RS507.

Added scanner status query and status broadcasting feature.

Fixed keep enabled on suspend feature failing intermittently.

Fixed DW crash when trying some steps in EMDK barcode sample.

Fixed backspace not working on the numeric fields in IP output plugin.

Fixed DataWedge configuration updates not saving after home button press.

Fixed keeping RS507 scanner enabled on suspend.

Fixed SimulScan plug-in messages not getting logged when the DataWedge logging is enabled.

Fixed SimulScan not working with default configuration.

Fixed Template Selected result not matching with the Template selection list.

Fixed issue where disabled profile getting enabled after renaming the profile.

Wireless LAN (Fusion) version Fusion_QA_1.02.0.0.034 New Features and Fixed Issues

Added Regulatory Changes for TC8000 - domain support for countries:
UA,DZ,PK,VG,GY,HN,JM,VN

Fixed SPR 28643: Unable to download country from the Zebra AP 7161

Fixed Wifi on/off in Airplane mode when device was configure with Restricted UI

Improved roaming performance in certain deauthentication scenarios

EMDK Service version 4.0.4.0 New Features and Fixed Issues

Fixed EMDKService crash observed with camera scanning due to file descriptor memory leaks.

Added support for the following MX v4.4 features in the Profile Manager

- Additional Locale - Updated UI Manager with Additional Locale Control support for SPANISH, US_SPANISH, BRAZILIAN PORTUGUESE and PORTUGUESE.
- Vendor Specific DHCP Options - Updated DHCP Manager that has the Vendor Specific DHCP Options support so that the device can be configured such that it will ask and set vendor specific attributes.
- PAC File - Updated Wi-Fi feature that has the PAC file support so that it can be used for changing proxy settings centrally and the devices will change their settings accordingly.
- Screen Capture Control - Updated Display Manager that has the Screen Capture Control support so that it can be used for controlling the ability to capture the device screen by users of the device specially when sensitive information is shown on the device.

Added support for ScanData.getRawData() in EMDK Barcode API.

Added support for AimType and IlluminationMode in ImagerSpecific configuration of Barcode API.

Added new capabilities to Activity Selection when creating a Data Capture profile using EMDK Wizard:

Added ability to define wildcard character “*”. If a profile needs to be associated with all the activities in an application, “*” can be used instead of defining each activity name. This was not supported in previous EMDK versions.

Added ability to define activity names with any naming format. Earlier EMDK versions were supporting only the activity names that has application name as a prefix in their activity name. Now users can define any type of activity names.

Added new method `getInstanceAsync()` to `EMDKManager`. The `EMDK Feature Manager` object returned by this method is guaranteed to be usable immediately. The feature manger object returned by the existing method `getInstance()`, may not be ready to be used immediately, especially after a device reboot.

Fixed the Barcode API, the `WAITING` and `IDLE` states were invoked twice instead of once.

Fixed `isContinuousScan` flag in Barcode API would always return false even when the `ContinuousScan` feature is successfully set.

Fixed the `emdkName` with a hyphen character (-) could not be used in the `CreateNameValuePair()` in Profile API.

Fixed the `paramValue` cannot have period character (.) when using `CreateNameValuePair()` in Profile API.

Enhanced the exception handling in EMDK to avoid null pointer exceptions and data format exceptions.

Simulscan Service version 1.11.1 New Features and Fixed Issues

Fixed failure in EMDK Sample App: Read->Capture Document->Read. Second read leads to failure.

Fixed crash while scanning and pressing HOME button

Fixed issue seen while scanning the image continuously.

Fixed device hangs while rescanning with simulscan Demo

Fixed green border does not appear on the device screen while trying to capture any image through Camera

Fixed issue where imager does not emit beam on loading device with Imager Template.

Fixed functionality of Zoom-in did not work for Default/Generated Templates.

Fixed mismatch between screen and zoom icon,

Touch Firmware version 0009 New Features and Fixed Issues

Improved support for stylus use

RxLogger version 3.0.0.52 New Features and Fixed Issues

Fixed the issue where the snapshot logs were not getting generated when one or few options are selected

Added LTS plugin support for Kernel logs

Fixed LTS plugin issue for main logs

Added the per core cpu usage feature in RxLogger main logs

Fixed the issue in backup now feature where it was getting disabled once main screen goes away

DEVICE COMPATIBILITY

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

Device	Operating System
TC80N0x, TC80NHx - All current SKUs	Android 4.4.3

INSTALLATION REQUIREMENTS

This Software can be used with compatible devices listed above.

There are no restrictions upgrading from previous releases.

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 TC8K0K300PUWW10071.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:
 - TC8K0K3F0RFFWW10071.zip (Factory Reset Package),
 - TC8K0K3E0REWW10071.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.

CHANGES AND FIXES

SPR 28643: Unable to download country from the Zebra AP 7161

Known Issues

A WLAN firmware issue causes multicast traffic to fail between two devices having consecutive MAC address. This will cause PTT Express calls between these devices to fail.

Exclusions:

- USB Mass Storage support deprecated in Android KitKat



- MSP not supported
- Workforce Connect will be supported in a future release

PART NUMBER AND RELEASE DATE

TC8K0K300PUWW10071
TC8K0K3E0REWW10071
TC8K0K3F0RFFWW10071

Apr 22 2016