

# Release Notes – MC18L v02.09.02

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## Introduction

The MC18 personal shopper solution is a smartphone-style, state-of-the-art mobile computer that transforms the shopping experience. As the next generation self-scanning solution, the MC18 enables retail shoppers to easily and conveniently scan items as they shop, saving time and avoiding the need to wait in lines at checkout. Retail shoppers can also receive discount coupons, as well as suggestions for complementary items.

Recovery update package v02.09.02.171009 contains the software required to update an MC18N0 SKU device to Lollipop OS.

This software is intended to be loaded and run on the MC18N0 SKU devices. It is important that care be taken to match the device configuration with the appropriate Recovery update package. If an incorrect Recovery update package is loaded, the device will not boot.

## Description

This release contains software packages which is compatible for MC18 product.

## Component description and version

Components/Description	Version
Build version	02-09-02-L-V0-M1
Android version	5.1.1
Android_SDK_Level	22
Android Security Patch Level	2017-07-05
OSX	TI.51.5.2.13
Linux_kernel	3.4.48
Wifi	FUSION_A_5.00.0.0.025 (Radio Equipment Directive Compliant)

X_loader	1.41.0(2017-Oct-9)
U_boot	1.1.5(2017-Oct-9)
Platform	TI - omap4430- 4AJ22
Scanning_Framework	18.8.15.0
DWDemo	2.0.11
MXMF	6.3.1.101
EA	3.62
SSPAM	4.7
Touch	Atmel mXT224
Bluetooth_Stack	01.08.00
Partation_table	NA
Flash_Size	4G
RAM_Size	1G
GPS	NA
MMS	NA
RIL_Version	NA
MSP_Agent_RD	7.08.86
Datawedge	6.4.18
RxLogger	4.58.5.0
StageNow	2.7.2.1039
B2M_Elemez	1.0.0.352
Data_Analytics	1.0.2.1969
EnterpriseBrowser	1.7.0.0
App_Gallery	3.0.1.7
SOTI	12.2.0 Build 23469
EMDK	6.5.12.812
ZVC	1.1.23
File_browser	1.16
BatteryManager	1.3.7
Device Diagnostic tool	1.15
SMART MU	2.3.3 App-2.3.7

## Known issues/limitations:

- First boot after OS update/Factory Reset/Enterprise Reset takes more time compared to MC18 KK
  - OS update through "ADB Sideload" takes approximately 3 minutes.
  - OS upgrade reboot time is more in L (approximately 9 mins) compared to KK, as Android L pre-compilation (AOT- Ahead of Time Compilation) takes considerable time.
- On MC18L by default Zebra Volume Control feature will be disabled and only AOSP sound settings will be seen. ZVC can be enabled/disabled through CSP.
- "Time Until full" displayed in lock screen compared to battery management app do not match. User should refer to the lock screen for correct value.

## Functional differences compared to KK:

- MC18KK, "About device" page, when the user taps on battery information it navigates to "Battery Manager" page. For MC18L the battery information displayed in About Device Info will be the same as Battery Manger Application's 'Advanced info'.
- Battery percentage display option: battery % in notification bar icon is not available in MC18L, if a user drags down the status bar the percentage is seen.
- Developer options will be disabled by default and user needs to manually enable Developer options feature by tapping on build number 7 times.
- The cradle scan LED behavior is different on MC18L compared to MC18KK. When the MC18 is inserted in the cradle, Scan LED will not blink on scan trigger press if L, blinks for KK.
- In EHS application "Keyguard camera disable" option is not disabled or greyed out.
- Wallpaper is not visible in the lock screen mode.
- After upgrading from KK to L, 'backup and reset' under settings option will remain grayed out. This is done to retain the legacy KK behavior. The option can be enabled via MDM or an EMDK application.

## SPR Fixes Included

- **SPR32664:** Resolved an issue wherein MC18 Navbar being applied only after a second boot when staged via StageNow.
- **SPR33283:** Resolved an issue wherein MC18L diagnostic data not returning correct values.
- **SPR32991:** Resolved an issue wherein MC18L remote view screen upside down.
- **SPR32609:** Resolved an issue wherein Datawedge is crashing using scan & go application.
- **SPR29912:** Resolved an issue wherein PFX Cert Install fails and Initialization of keystore also fails.
- **SPR32365:** Resolved an issue wherein MC18L scanner is being enabled throughout reboot.
- **SPR32230:** Resolved an issue wherein AirWatch deployed certs are not accessible/available when it was requested during EAP-TLS authentication.
- **SPR32193:** Resolved an issue wherein AirWatch was experiencing authentication failures and not able to recover.
- **SPR32439:** Resolved an issue wherein certificates were lost randomly though certificates were not expired.
- **SPR30401:** Added(swversions.apk) application to read system properties and place them into an XML file.
- **SPR29796:** Resolved an issue wherein customer was seeing EGL\_BAD\_MATCH and android.os.TransactionTooLargeException in logs while using customer app.

- **SPR31255:** Resolved an issue wherein MC18 reboots intermittently due to deadobjectexception.
- **SPR31892:** Features in EB included to delete cookies on application exit and decode LED notification light on trigger press If barcode is enabled.
- **SPR32002:** Features in EB included to delete cookies on application relaunch.
- **SPR32008:** Resolved an issue wherein embedded carriage return transmits as a space.
- **SPR32126:** Resolved an issue wherein stock browser gets enabled automatically post reboot even though user has disabled the app in settings.
- **SPR31625:** resolved an issue wherein decoder params "QRcode", "PDF417" and "I2O5" fails to disable (setting to false) if scanner is disabled and enabled
- **SPR31174:** Resolved an issue wherein system warning "Battery was improperly removed before the reboot" issue.
- **SPR30402:** Resolved an issue where MC18 does not notify the access point about power save while roaming
- **SPR30458:** Resolved an issue wherein toggling WiFi ON/OFF repeatedly causes a kernel panic and reboot.
- **SPR30135:** Resolved an issue wherein radio probes, yet fails to select a roam-to AP after receiving multiple audible probe responses due to DFS channel roam scan failure.
- **SPR31247:** Resolved an issue with roaming on MC18 where the R0 Key Holder ID exchanged at different occasions are one and the same, yet the device complains it as an error.
- **SPR32135:** Resolved an issue wherein changing locale from Arabic to English via EMDK causes settings screen to show an incorrect state.

## Additional Fixes Included

- Resolved an issue for 'blueborne' Bluetooth vulnerability.
- Resolved an issue in MX to prevent leakage of configuration parameters

## Contents

M18N0LXXXRUxx20902.zip	MC18N0 L Recovery OS FullPackageUpdate for KK to L OS upgrade & L to L OS Update.
M18N0LXXXAUXX20902.apf	MC18N0 L AirBEAM OS FullPackageUpdate for KK to L OS upgrade & L to L OS Update.
M18N0LXXXRF0000003.zip	Factory Reset Recovery Package Wipes userdata (/data) and enterprise partitions. Persists OnDeviceStorage (/sdcard) and factory partitions
M18N0LXXXAF0000003.apf	Factory Reset AirBeam Package

	Wipes userdata (/data) and enterprise partitions. Persists OnDeviceStorage (/sdcard) and factory partitions
M18N0LXXXRE0000003.zip	Enterprise Reset Recovery Package Wipes userdata (/data) partitions. Persists Enterprise, OnDeviceStorage (/sdcard) and factory partitions
M18N0LXXXAE0000003.apf	Enterprise Reset AirBeam Package Wipes userdata (/data) partitions. Persists Enterprise, OnDeviceStorage (/sdcard) and factory partitions
M18N0LXXXRW0000003.zip	Full Factory Reset Recovery Package Wipes userdata (/data), enterprise and OnDeviceStorage (/sdcard) partitions. Persists factory partition.
M18N0LXXXAW0000003.apf	Full Factory Reset AirBeam Package Wipes userdata (/data), enterprise and OnDeviceStorage (/sdcard) partitions. Persists factory partition
M18N0LXXXVRDXX00002.zip	MC18N0 L recovery update package to convert to KK Recovery to allow downgrade to KK OS.

## Device Compatibility

This software release has been approved for Android MC18 models mentioned below.

Device	Operating System
MC18	Android 5.1.1

## Installation Requirements

1. The device must contain released version of MC18 Android Software.
2. Enterprise Reset and Factory Reset package files are available on the MC18 Software Download section on Zebra.com.

## Installation Instructions

### 1. OS Recovery Update Package

1. Connect device to PC via USB (note, PC must support MTP).
2. Make sure MTP mode is selected in the USB settings in the device and MTP drivers are installed in your PC
3. The internal SD card of the MC18 will be seen on your PC as mounted drive MC18N0.
4. Copy " M18N0LXXXRUxx20902.zip" file to the root folder of "On Device Storage".
5. Remove USB cable from PC and keep the device in cradle.

6. Press and hold scan button for approximately 10 seconds, now the device will be in power/switch off mode.
7. Press the scan button briefly and release it. The device will start to power on.
8. Immediately Press the scan button again briefly and release it.
9. Navigation in the recovery menu is as follows -> Tap on the display to switch through the options/files -> Press scan button to select an option/file.
10. Select "apply update from On Device Storage"
11. Select the zip file package on /sdcard that you want to update to.
12. When update is complete, select "reboot system now"

### 13. OS AirBEAM Update package

- a. Please refer Mobility Service Platform deployment guide for instruction.

**Note:** Battery must be **30%** charged to perform update for Airbeam update.

## Downgrade instruction for MC18 Lollipop to KitKat using Recovery

1. Download the "M18N0LXXVRDXX00002.zip" file to your local PC
2. Download the KitKat "FullPackageUpdate.zip" file to your PC
3. Copy all the above files to **on device storage**
4. Go to Recovery mode of the device using these steps:
  - a. Press and hold scan button for approximately 10 seconds, while in cradle to reboot the terminal. Unit will power off at this point. Release the Scan button then again, press the scan button briefly and release it, and device will start to power up.
  - b. Keep holding down scan trigger immediately.
  - c. When Android logo appears on the screen release scan trigger (Note: If the terminal is in cradle and the trigger is pressed for more than 10 seconds it will power off. So in step above, ensure to remove the trigger as soon as the android logo appears.)
5. Navigation in the recovery menu is as follows -> Tap on the screen to switch through the options/files -> Press scan trigger to select an option/file.
6. Select Apply update from on Device Storage
7. First install " M18N0LXXXRDXX00002.zip "
8. Reboot to recovery again
9. Then install Kitkat "FullPackageUpdate.zip" file
10. Then reboot.
11. Now device should boot to Kitkat

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1. M18N0LXXXRUXX20902.zip
2. M18N0LXXXAUXX20902.apf
3. M18N0LXXXRW0000003.zip

4. M18NOLXXXAW0000003.apf
5. M18NOLXXXRF0000003.zip
6. M18NOLXXXAF0000003.apf
7. M18NOLXXXRE0000003.zip
8. M18NOLXXXAE0000003.apf
9. M18NOLXXVRDXX00002.zip

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