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# Release Notes – Zebra MC67 Android KK – LifeGuard Update 06 Release FIPS

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## Description

This release contains the following software package which is compatible with the MC67 KK product.

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## Component Contents

Component	Version
Product Build Number	03-20-01-4AJ22-K-F0-M1-081917
KitKat	4.4.4
Kernel	3.4.48
Android SDK Level	19
Bluetooth Stack	4
DataWedge	6.5.61
Scanning Framework	6.36.0
MSP	7.08.86
DWDemo	2.0.11
Fusion	A_4.01.0.0.016
MXMF Version	7.3.1.1
OSX	TI_OSX_4.5-3

PTT	3.1.32
RxLogger	3.0.0.52
EA	3.66
SPAM	2.19
StageNow	2.8.1
B2M Elemez	1.0.0.352
Data Analytics	1.0.2.2091
App Gallery	3.0.1.7
SOTI	12.2.0 Build 23434
EMDK	6.6.14
ZVC	1.1.15
BaseBand	3.320
Device Diagnostics	1.15.0.4
RD Client	7.08.86
ZSL	3.1.1
GPS Firmware	91.101
WWAN Firmware	PH8-P_R03.320_A01.000.06

**CFE v6:**

❖ **CFE-MC67NA-K-F0-032001-N-00-06.zip**

This release contains the following fixes and updates.

Android Security Patch Level: March 5, 2017 (Critical Patch Level: May 1, 2019)

Use the link below to see the Android Security bulletin for more information:

<https://source.android.com/security/bulletin/>

1. Updated below mentioned components:
  - Mx: 7.3.1.1
    - SPR36354 - Resolved an issue wherein DHCP Option Manager was not boot persistent
2. Updated to handle extended GPS Week number for correct date calculation due to GPS week number roll over.

#### CFE v5:

##### ❖ **CFE-MC67NA-K-F0-032001-N-00-05.zip**

This release contains the following fixes and updates.

Android Security Patch Level: March 5, 2017 (Critical Patch Level: Feb 1, 2019)  
Use the link below to see the Android Security bulletin for more information:

<https://source.android.com/security/bulletin/>

#### CFE v4:

##### ❖ **CFE-MC67NA-K-F0-032001-N-00-04.zip**

This release contains the following fixes and updates.

Android Security Patch Level: March 5, 2017 (Critical Patch Level: Sept 1, 2018)  
Use the link below to see the Android Security bulletin for more information:

<https://source.android.com/security/bulletin/>

1. Zebra-EULA (End User License Agreement) is included in Android Settings which allows the end user to view the status of Machine Data collection by Zebra Data Service Agent (ZDS).
2. Included Zebra Software License Manager (ZSL) v3.1.1
3. Updated below mentioned components:
  - Mx: 7.3.0.0

#### CFE v3:

##### ❖ **CFE-MC67NA-K-F0-032001-N-00-03.zip**

This release contains the following fixes and updates.

Android Security Patch Level: March 5, 2017 (Critical Patch Level: June 1, 2018)

Use the link below to see the Android Security bulletin for more information:

<https://source.android.com/security/bulletin/>

1. Updated DataAnalytics version : 1.0.2.2091
2. SPR33599 - Resolved an issue wherein few system apps were being disabled after Applock whitelist mode was enabled.
3. SPR34573 - Resolved an issue wherein the Cellular Data connection notification was significantly delayed.
4. SPR33512 - Resolved an issue wherein TCPDump rollback was not happening when Change in Network connection was detected.
5. SPR33948 - Fixed SSL Exception due to incomplete TLS extension information in client hello packet.

## CFE v2:

### ❖ CFE-MC67NA-K-F0-032001-N-00-02.zip

This release contains the following fixes and updates.

6. Android Security Patch Level: March 5, 2017 (Critical Patch Level: March 5, 2018)

Use the link below to see the Android Security bulletin for more information:

<https://source.android.com/security/bulletin/>

7. Spectre & Meltdown correction for variant 2
8. SPR32934 - Resolved an issue wherein Sound on Keypress was not working for hardware keypad keystrokes.
9. SPR33538 - Resolved an issue wherein scanner beam stuck off when pressing scanner button.

## CFE v1:

### ❖ CFE-MC67NA-K-F0-032001-N-00-01.zip

This release contains the following fixes and updates.

1. Android Security Patch Level: March 5, 2017 (Critical Patch Level: December 5, 2017)

Use the link below to see the Android Security bulletin for more information:

<https://source.android.com/security/bulletin/>

2. Corrections for KRACK vulnerabilities applied.
3. Included fix for Blueborne vulnerability.
4. Updated below mentioned components:
  - DataWedge: 6.5.61
  - EMDK: 6.6.14
  - StageNow: 2.8.1
  - Mx: 7.0.3.0
5. SPR33268 - Resolved an issue wherein WWAN disable state was not persistent after reboot.
6. SPR32765 - Resolved an issue wherein the screen lock did not get deactivated, though the screen lock was set to none.
7. SPR32972 - Resolved an issue wherein behavior of multi tap keys on hardware keyboard was incorrect on the browser pages.
8. SPR32676 - Resolved an issue wherein DataWedge crashes due to velocity application profile creation.

## Device Compatibility

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This software release has been approved for Android MC67 KK models mentioned below.

Device	Operating System
MC67NA-PDAEAA0050U	Android KitKat 4.4.4

MC67NA-PDAEAB0050U	Android KitKat 4.4.4
MC67NA-PDAEAF0050U	Android KitKat 4.4.4
MC67NA-PDAEAA00500	Android KitKat 4.4.4
MC67NA-PDAEAB00500	Android KitKat 4.4.4
MC67NA-PBAEAA00500	Android KitKat 4.4.4
MC67NA-PBAEAB00500	Android KitKat 4.4.4

## Installation Requirements

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- ADB installed on the PC (including adb drivers)
- USB debugging turned ON (from Developer options)
- MC67 has at least:
  - Version 3.20.01 Standard Build

## Installation Instructions

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BEFORE UPDATING THE OS IMAGE, EXTERNAL POWER MUST BE APPLIED TO THE TERMINAL VIA USB CHARGING CABLE OR CRADLE.

PLEASE ENSURE BATTERY LEVEL IS > 50%

### CFE Recovery package software update procedure for MC67:

1. Make sure the device is in MTP Mode. If device is in MTP mode, On your PC you should see an Enterprise storage, Internal storage or SD card partitions. Copy the recovery update zip file (CFE-MC67NA-K-F0-032001-N-00-06.zip) package to Internal storage or SD card partition.
2. Press and hold 1+9+Power Key. Unit will reboot at this point.
3. Quickly press and hold down PTT Trigger. (lower right-side button.)
4. The Android system recovery screen should appear. Release PTT Trigger.
5. Click on Vol+ or Vol- to navigate and select appropriated storage. Select 'apply update from sdcard' if you copy zip file on SD card partition. Select 'emulated storage' if you copied zip file on Internal storage.
6. Click on PTT Trigger or Enter key to select the option
7. Click on Vol+ or Vol- to navigate to the recovery update zip file
8. Click on PTT Trigger or Enter key to select the recovery update zip file

Use below steps to check the Android Patch Level after installing the CFE package in the device:

- Settings->About phone-> Zebra Patch Version: CFE-MC67NA-K-F0-032001-N-00-06

- ADB Shell method: Execute following command from PC's command prompt:  
\$ adb shell getprop persist.sys.cfe.patchver  
\$ CFE-MC67NA-K-F0-032001-N-00-06

## Downloadable Software Included in this Release

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Filename	Description
CFE-MC67NA-K-F0-032001-N-00-06.zip	Recovery Package CFE v6 software update for MC67 KK products.

Last Revised: <17-05-2019>