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# Release Notes - Zebra MC18 Android L – LifeGuard Update 10 Release

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## Description

This release contains the following software package which is compatible with the MC18 product.

LifeGuard patches are cumulative and include all previous fixes that are part of earlier patch releases.

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## Component Contents

Component / Description	Version
Build Number	02-09-02-L-V0-M1
Device Patch Version	10
Android version	5.1.1
Android_SDK_Level	22
Android Security Patch Level	2018-03-05 (Critical Patch Level: 2019-08-01)
OSX	TI.51.5.2.13
Linux_kernel	3.4.48
Wifi	FUSION_A_5.00.0.0.026 (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	19.58.37.1

DWDEMO	2.0.13
MXMF	7.2.10.2
EA	3.62
SSPAM	4.7
Touch	Atmel mXT224
Bluetooth_Stack	01.017.00
Partation_table	NA
Flash_Size	4G
RAM_Size	1G
GPS	NA
MMS	NA
RIL_Version	NA
MSP_Agent_RD	7.08.86
Datawedge	6.7.48
RxLogger Utility	4.58.5.0
StageNow	2.10.1.1389
B2M_Elemez	1.0.0.352
Data_Analytics	1.0.2.2091
EnterpriseBrowser	1.8.0.0
App_Gallery	3.0.1.7
SOTI	12.2.0 Build 23469
EMDK	6.8.21.1121
Zebra Volume Control (ZVC)	1.1.23
File_browser	1.19.1.2
BatteryManager	1.3.7
Device Diagnostic tool	1.15.0.11
WorryFreeWiFi (SMART MU)	2.3.3 App-2.3.7
Enterprise Keyboard (EKB)	1.7.0.2
Zebra Software License Manager	3.1.1
Zebra Data Services	1.0.0.1002
Image Kit	IMGKIT_8.02T01.18

## 1. CFE v10 Updates:

- ❖ CFE-MC18N0-L-V0-020902-N-00-10.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

### 1. Android Security Patch Level: 2018-03-05 (Critical Patch Level: 2019-08-01).

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

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

The CFE Package 'CFE-MC18N0-L-V0-020902-N-00-10.zip' includes the following fixes

- SPR 38013 - Resolved an issue where previously scanned data in past reappeared as valid scan data.

## 2. CFE v9 Updates:

- ❖ CFE-MC18N0-L-V0-020902-N-00-09.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

### 1. Android Security Patch Level: 2018-03-05 (Critical Patch Level: 2019-06-01).

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

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

The CFE Package 'CFE-MC18N0-L-V0-020902-N-00-09.zip' includes the following fixes

- SPR36598 - Improvement added in WLAN driver to retain connection in a congested environment.
- SPR37246 - Fixed an issue wherein logging used to get truncated with unexpected EOF error.
- SPR37196 - Resolved an issue where MC18 experiences slow Download speed in 802.11AC wave 2 enabled infrastructure.

## 3. CFE v8 Updates:

- ❖ CFE-MC18N0-L-XX-020902-N-00-08.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

### 1. Android Security Patch Level: 2018-03-05 (Critical Patch Level: 2019-03-01).

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

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

The CFE Package 'CFE-MC18N0-L-XX-020902-N-00-08.zip' includes the following fixes

- SPR35368- Resolved an issue where in device is unable to scan barcode suspend and resume.
- SPR35362: Resolved an issue where in TC80 NGMS Scanner was not able to decode when HW picklist is enabled.
- SPR35288 - Fixed an issue wherein initialization of scanner was taking ~1sec.
- SPR35054 - Added support for reduced quite zone barcode decoding.
- SPR34844 – Resolved an issue wherein multiple open calls are prevented when multiple application tries to open scanner without releasing previous instance.
- Updated below mentioned Components:
  - MXMF – Version 7.2.10.2 (For more detail please refer <http://techdocs.zebra.com>)
  - Scanner Framework – 19.53.37.0
  - EKB: 1.7.0.5
  - Bluetooth: 1.017.00

#### 4. CFE v7 Updates:

- ❖ CFE-MC18N0-L-XX-020902-N-00-07.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

##### 1. Android Security Patch Level: 2018-03-05 (Critical Patch Level: 2018-12-01).

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

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

#### 5. CFE v6 Updates:

- ❖ CFE-MC18N0-L-XX-020902-N-00-06.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

##### 1. Android Security Patch Level: 2018-03-05 (Critical Patch Level: 2018-09-01).

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

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

The CFE Package 'CFE-MC18N0-L-XX-020902-N-00-06.zip' includes the following fixes

- SPR35025 – Resolved an issue where Proxy Auto Config (PAC) did not work properly following stops/restarts of the PacService.
- SPR33977 – Resolved an issue wherein set time zone issue observed with StageNow.
- SPR34679 – Resolved an issue wherein setting WiFi Band selection to Auto was not working properly with StageNow.
- Included Zebra Software License Manager v3.1.1.
- SettingsEULA has been renamed to Zebra Data Services.
- Updated below mentioned Components:
  - MXMF – Version 7.2.9.0(For more detail please refer <http://techdocs.zebra.com>)
  - Enterprise Browser 1.8.0.0

#### 6. CFE v5 Updates:

- ❖ CFE-MC18N0-L-XX-020902-N-00-05.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

##### 1. Android Security Patch Level: 2018-03-05 (Critical Patch Level: 2018-06-01).

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

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

The CFE Package 'CFE-MC18N0-L-XX-020902-N-00-05.zip' includes the following fixes

- SPR33599 – Resolved an issue wherein few system apps were being disabled after Applock whitelist mode was enabled.
- SPR33818 – Fixed an issue wherein certain decoder type values were not persisting across a scanner enable/disable cycle.
- SPR33755 – Resolved an issue wherein Whitelisted Apps were unable to submit XML to MX.
- SPR33207 – Implemented Battery Health percentage values for PP+ batteries in the Device Diagnostic App.
- SPR33671 – Resolved an issue wherein the profile creation used to fail if the username included “\” character.

- SPR34267 – Resolved an issue where-in user was not able to enable USB debugging option using StageNow.
- SPR33862/33876 – Fixed an issue where-in user could not set Display Timeout value of 30min using StageNow.
- SPR34145 – Fixed an issue wherein user was unable to connect to WLAN network due to WEP Key Index issue.
- SPR34307/ SPR33607 – Resolved an issue wherein devices out of the box intermittently failed to get staged via StageNow.
- SPR33981 – Fixed an issue wherein Czech Republic could not be set as Regulatory country while configuring WLAN profile using StageNow.
- SPR34614 – Fixed an issue in DataWedge wherein scanner could not be enabled due to quick enabling and disabling of scanner through Intents.
- SPR34804 – Fixed an issue wherein applying MDM Lockdown profile used to fail on KK to L upgrade.
- SPR34805 – Fixed an issue wherein user was unable to copy DW profiles to the autoimport folder via MDM on KK to L upgrade.
- SPR33920 – Fixed an issue wherein devices failed to connect to WLAN network if the country selection is set to Japan.
- SPR34213 – Resolved an issue wherein shared preference initialization without launching EKB.
- Updated below mentioned Components:
  - MXMF – Version 7.2.8.2
  - EMDK – Version 6.8.21.1121
  - Staging Client – Version 2.10.1.1389
  - DataWedge – Version 6.7.48
  - Enterprise Keyboard – Version 1.7.0.2
  - Diagnostic Tool – Version 1.15.0.11
  - File Browser – Version 1.19.1.2

## 7. CFE v4 Updates:

❖ CFE-MC18N0-L-XX-020902-N-00-04.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

- SPR33299/SPR33444 – Resolved an issue wherein the device was not charged/powering off while in cradle.
- SPR34184 – Resolved an issue wherein the Red LED Illumination beam gets stuck while using Scan Application.
- SPR34368 – Resolved an issue wherein the Apps persist and storage memory was getting low on every reboot after ER/FR.
- SPR33973 – Fixed an issue wherein scanner beam stuck off when pressing scanner button.
- SPR34529 – Resolved an issue wherein the device reboot after a long pressing scanner button.
- SPR32700/SPR34548 – Fixed an issue wherein the 802.11n MCS data rates were disabled to avoid interoperability issue.
- Updated below mentioned Components:
  - DataWedge – Version 6.7.47
  - Scanner Framework – Version 18.10.15.00

## 8. CFE v3 Updates:

❖ CFE-MC18N0-L-XX-020902-N-00-03.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

### 1. Android Security Patch Level: 2018-03-05.

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

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

The CFE Package 'CFE-MC18N0-L-XX-020902-N-00-03.zip' includes the following fixes:

- Spectre & Meltdown correction for variant 2.
- Updated below mentioned TUT components:
  - MXMF – Version 7.2.0.6
  - DataWedge – Version 6.7.34
  - EMDK – Version 6.8.20.1120
  - Staging Client – Version 2.10.1.1386
  - File Browser – Version 1.19.1.2
  
- SPR33138 - Resolved an issue wherein audio tool was not working on MC18 L due to permission issue.
- SPR33537 - Resolved an issue wherein the device appears to be powering off while in cradle.
- SPR33538 - Resolved an issue wherein scanner beam stuck off when pressing scanner button.
- SPR33639 – Resolved an issue wherein the device stops emitting scan beam after waking up from suspend.

## 9. CFE v2 Updates:

❖ CFE-MC18N0-L-XX-020902-N-00-02.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

1. **Android Security Patch Level:** 2017-12-05.

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

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

The CFE Package 'CFE-MC18N0-L-XX-020902-N-00-02.zip' includes the following fixes:

- Updated below mentioned TUT components:
  - MXMF – Version 7.1.1.0
  - DataWedge – Version 6.6.49
  - EMDK – Version 6.7.10.1010
  - Staging Client – Version 2.9.1.1344
  
- SPR33233 - Resolved an issue wherein the DataWedge 6.2.24 could not replace separator or non-printable ascii character with \$.
- SPR32463 - Resolved an issue wherein the StageNow File Manager downloads frequently fails due to Sockettimeout exception.
- SPR32676 - Resolved an issue wherein DataWedge crashes due to velocity application profile creation.

## 10. CFE v1 Updates:

❖ CFE-MC18N0-L-XX-020902-N-00-01.zip

This CFE is applicable for 02-09-02-L-V0-M1 OS version.

1. **Android Security Patch Level:** 2017-07-05.

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

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

The CFE Package 'CFE-MC18N0-L-XX-020902-N-00-01.zip' includes the following fixes:

- Corrections for KRACK vulnerabilities applied.
- SPR33137 – Updated EB v1.7.1
- SPR31340 -- Added support to enable/disable Network Monitoring Notification.
- SPR32731 -- Resolved an issue wherein EMDK crash was observed.

## Device Compatibility

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

Device	Operating System
MC18	Android 5.1.1

## Installation Requirements

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- The Software update requires SKU hardware device.
- Enterprise Reset and Factory Reset package files are available on the MC18 Software Download section on Zebra.com.

## 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 > 30%

### CFE software update procedure for MC18:

#### 1. OS Recovery Update Package (USB method)

1. Place device in cradle.
2. Connect the USB cable from your PC to the device.
3. The internal SD card of MC18 may be seen on your PC as mounted drive MC18N0.
4. Copy the recovery update zip file to the root folder on internal SD card.
5. Go to PC's Command Prompt, type "adb devices" you should get you connected device in the list with key.
6. Enter "adb reboot recovery" from Command Prompt
7. 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.
8. Select "apply update from On Device Storage".
9. Select the zip file package on /sdcard that you want to update to.
10. When update is complete, select "reboot system now".

#### 2. Process through adb sideload:

1. Connect the USB cable from your PC to the device.
2. Go to PC's Command Prompt, type "adb devices" you should get you connected device in the list with key.
3. Enter "adb reboot recovery" from Command Prompt
4. Touch the screen to navigate to the "apply update from ADB" option.
5. Click on HOME key to select the option.
6. On device, once you get the message, "Now send the package...", enter adb sideload add space at the end, then drag and drop the zip file CFE-MC18N0-L-XX-020902-N-00-10.zip from PC's Command Prompt.
7. Once you get highlighted "reboot system now", Click on HOME key to reboot the device.

After installation completed, goto Settings to check CFE package installed correctly:

- a. Settings-> About Device-> SW components-> Device Patch Version: 10
- b. ADB Shell method: Execute following command from PC's command prompt:
 

```
$ adb shell getprop ro.device.patch.version
$ 10
```

## Downloadable Software Included in this Release

Filename	Description
CFE-MC18N0-L-XX-020902-N-00-10.zip	CFE package update software

Last Revised: <23-09-2019>