

Release Notes – Zebra MC33x Android N LifeGuard Update 04 for GMS

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Introduction

Zebra MC33x is the next generation key-based, rugged mid-range hand-held mobile computing device. MC33x supports multiple form-factors offering a combination of different physical keys, data capture and memory options. Running on a stable Android-N (7.1.2) OS, MC33x offers the Zebra Value Adds software solutions to enhance your Enterprise workflow.

The MC33x is the professional-grade Android device built from the ground up for the Enterprise.

- 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

Description

This release contains the following software package which is compatible with the MC33 GMS product.

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

1. CFE v4 Updates:

❖ CFE-VC80x_MC33-01-01-48-NG-00-A-04.zip (GMS)

1. **Android Security Patch Level:** March 5, 2018

Use the link below to see the Android Security bulletin for more information:
<https://source.android.com/security/bulletin/>

2. **Updated below components:**

- Datawedge: 6.7.34
 - StageNow: 2.10.1.1386
 - EMDK: 6.8.20.1120
 - MX: 7.2.0.6
 - File browser: 1.19.1.2
3. SPR33311 – Resolved an issue wherein RS507 is unable to connect via Bluetooth using Voxware voice application.
 4. SPR33302 – Resolved an issue wherein disabling the oval capacitive key via StageNow fails.
 5. SPR34267 – Resolved an issue wherein USB debugging failed to get enabled via StageNow.
 6. SPR33639 – Resolved an issue wherein device stops emitting scan beam after waking up from suspend state.
 7. SPR33799 – Resolved an issue wherein DataWedge was sending char 10 instead of char 13.

2. CFE v3 Updates:

❖ CFE-VC80x_MC33-01-01-48-NG-00-A-03.zip (GMS)

1. Spectre and Meltdown (CVE-2017-5753, 5715, 5754) remediation provided by updates to timer access for CVE-2017-13218.
2. Fix for bug: BT connection state does not persist across reboots, if location settings is in enabled state

Device Compatibility

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

Device	Operating System
MC330M-GL3HG2RW	Android N
MC330M-GL4HA2RW	Android N
MC330M-GL40A2RW	Android N
MC330M-GI4HA2IN	Android N
MC330M-GI4HA2RW	Android N

MC330M-GI2HA2US	Android N
MC330M-GI2HA2RW	Android N
MC330K-GI3HA3US	Android N
MC330K-GI3HA3RW	Android N
MC330K-GI4HA3US	Android N
MC330K-GL2HA3RW	Android N
MC330K-GI3HA4RW	Android N
MC330K-GI4HA4US	Android N
MC330K-GL3HA4RW	Android N
MC330K-GE4HA4US	Android N
MC330M-GL2HA2US	Android N
MC330M-GL2HA2RW	Android N
MC330M-GL3HA2US	Android N
MC330M-GL3HA2RW	Android N
MC330M-GI30A2RW	Android N
MC330M-GI3HA2IN	Android N
MC330M-GI3HA2US	Android N
MC330M-GI3HA2RW	Android N
MC330M-GI3HG2RW	Android N
MC330M-GI40A2US	Android N
MC330M-GL40A2US	Android N
MC330M-GL4HA2US	Android N
MC330K-GI4HA3RW	Android N
MC330K-GI4HG3US	Android N
MC330K-GI4HG3RW	Android N
MC330K-GL3HA3RW	Android N
MC330K-GL4HA3US	Android N
MC330K-GL4HA3RW	Android N
MC330K-GL4HG3RW	Android N
MC330K-GI4HA4RW	Android N
MC330K-GI4HG4US	Android N
MC330K-GI4HG4RW	Android N
MC330K-GL4HA4US	Android N
MC330K-GL4HA4RW	Android N
MC330M-GI4HA2US	Android N
MC330M-GI4HG2US	Android N
MC330K-GE3HA3US	Android N
MC330K-GE4HA3US	Android N
MC330K-GE4HA3RW	Android N
MC330K-GE3HA3RW	Android N
MC330K-GE4HA4RW	Android N

Component Contents

Component / Description	Version(GMS)
Product Build Number	01-01-49-NG-00-A
Android Version	7.1.2
Linux Kernel	3.10.84
Android SDK Level	25
Platform	QC8956
Bluetooth Stack	1.1
Flash Size	16/32GB
RAM Size	2/4GB
Scanning	19.0.31.0
DataWedge	6.7.34
EMDK	6.8.20.1120
MXMF / OSX	MXMF-7.2.0.6 / OSX-QCT.71.7.5.2
File Browser	1.19.1.2
Stage Now	2.10.1.1386
Diagnostic Tool	1.15.0.6
Android security patch Level	March 5,2018

Installation Requirements

Install baseline 01-01-48-NG-00-A (GMS)

Installation Instructions

Using ADB Sideload

The installation instructions assume you have ADB installed on your PC (the adb drivers and such) and your MC33x has Developer options enabled and USB debugging ON:

Instructions on HOW TO enable ADB is also captured in user guide.

1. Connect the MC33x to the PC using the USB data cable or through the cradle.
2. You may need to pull down the top menu and if you see "USB for charging", touch it and then change it to "File transfers".
3. Open Command Prompt, run "*adb devices*" and check to see if you are able to see the device's serial number.
If yes, proceed to next step
If not please get the PC set up with the proper drivers or install an External SD Card.
4. You may also get a pop up on your PC (Win 7) that you will be connected as a Portable MediaPlayer. This can be ignored.
5. Download Image
 - a. **CFE-VC80x_MC33-01-01-48-NG-00-A-04.zip** listed above in content section
 - b. Reset files (Optional)
6. Entering into Recovery Mode
 - a. Option 1: In Command Prompt, type "*adb reboot recovery*" and click enter.
 - b. Option 2:
 - Reboot the device and keep the GUN (grip) trigger held.
 - When Zebra Technologies logo appears on the screen release the trigger
7. MC33x will reboot and land up on the Android Recovery screen.
8. If applying patch via sideload method
 - a. Use UP and DOWN keys on the keypad to navigate up/down highlight item
 - b. Use ENTER key on the keypad to select menu item – "Apply update via adb sideload"
9. With your Command Prompt, open, type "*adb sideload*" and add a space and then drag and drop the patch file on to it and click enter.
 - a. Your PC screen will show files being installed and a little blue horizontal progress bar on your device will show status... And after about 6 minutes (could be 10+ minutes if installing GMS) it should be done and you should be back at the Android Recovery screen.
 - b. Repeat above steps for all mandatory packages
10. "*Reboot system now*" is highlighted. Press the Power Key to Reboot.
11. Device reboots and you see Zebra on top and POWERED BY android at the bottom and after about 1 minute will transition to the MC33X splash screen with 5 dancing white dots at bottom... it will stay at this screen for a little over another minute (*could be another 7+ minutes if installing GMS*) and then you are at the Factory "Welcome" screen.
12. If you installed a GMS BSP, you will need to complete the process by setting up Wi-Fi and E-mail accounts and such. If on AOSP (non-GMS), there is no process to follow.
13. At the Home Screen, we need to verify that the BSP upgrade took place and set the Date & Time.

- a. Go to “Settings” and scroll down to “About phone” and look at the “Build number”. It should start with “01-01-49-NG-00-A”. Now you are on the correct BSP.
 - b. Setting the Date and Time. If you associate to a WLAN AP, do so now, as it should automatically set the time and date... the only thing left is to set the time zone. Go to “Settings” and scroll to and select “Date & time”. Scroll down to and select “Select time zone”, and scroll down to and select the appropriate time zone and you are done.
14. To Check the Android Patch Level after installing the CFE package in the device,
- a. Settings->About Phone->SW Components: Device Update Version: **4**
 - b. ADB Shell method: Execute following command from PC's command prompt:

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

```
$ 4
```
15. Now you are all set to use your MC33X.

Using External SD card

1. Plug the MC33X into the USB & Charging Cable and then the Cable to the PC. If you have a Cradle with USB connectivity, you may use that as well.
2. You may need to pull down the top menu and if you see “USB for charging”, touch it and then change it to “File transfers”.
3. Download **CFE-VC80x_MC33-01-01-48-NG-00-A-04.zip** and drag & drop the file on External SD card
4. Entering into Recovery Mode
 - Reboot the device and keep the GUN (grip) trigger held.
 - When Zebra Technologies logo appears on the screen release the trigger
5. Your MC33X will reboot and land up on the Android Recovery screen.
6. Applying update via External SD card
 - a. Use UP and DOWN keys on the keypad to navigate up/down highlight item
 - b. Use ENTER key on the keypad to select menu item – “Apply update from External SDCard”
 - c. Repeat above steps for all mandatory packages
7. “Reboot system now” is highlighted. Press the Power Key to Reboot.
8. Device reboots and you see Zebra on top and POWERED BY android at the bottom and after about 1 minute will transition to the MC33X splash screen with 5 dancing white dots at bottom... it will stay at this screen for a little over another minute (*could be another 7+ minutes if installing GMS*) and then you are at the Factory “Welcome” screen.
9. If you installed a GMS BSP, you will need to complete the process by setting up Wi-Fi and E-mail accounts and such. If on AOSP (non-GMS), there is no process to follow.
10. At the Home Screen, we need to verify that the BSP upgrade took place and set the Date & Time.
 - a. Go to “Settings” and scroll down to “About phone” and look at the “Build number”. It should start with “01-01-49-NG-00-A”. Now you are on the correct BSP.
 - b. Setting the Date and Time. If you associate to a WLAN AP, do so now, as it should automatically set the time and date... the only thing left is to set the time zone. Go

to “Settings” and scroll to and select “Date & time”. Scroll down to and select “Select time zone”, and scroll down to and select the appropriate time zone and you are done.

11. To Check the Android Patch Level after installing the CFE package in the device,
 - a. Settings->About Phone->SW Components: Device Update Version: **4**
 - b. ADB Shell method: Execute following command from PC's command prompt:
\$ adb shell getprop ro.device.patch.version
\$ **4**

12. Now you are all set to use your MC33X.

2. Fix for bug: BT connection state does not persist across reboots, if location settings is in enabled state

Downloadable Software Included in this Release

Package Name	Description
CFE-VC80x_MC33-01-01-48-NG-00-A-04.zip	OTA incremental CFE v4 update software for GMS build compatible for MC33 and VC80x products

Last revised: March 13, 2018