

# ***Release Notes – Zebra MC33x Android N LifeGuard Update 14 for GMS***

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## **Introduction**

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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**

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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.

## Component Contents

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| Component / Description   | Version   |
|---------------------------|---|
| Product Build Number      | 01-01-49.00-NG-U14-STD  |
| Android Version           | 7.1.2   |
| Linux Kernel              | 3.10.84   |
| Android SDK Level         | 25  |
| Platform                  | QC8956  |
| Bluetooth Stack           | 1.1   |
| Flash Size                | 32GB  |
| RAM Size                  | 4GB   |
| Scanning                  | 19.11.37.1  |
| DataWedge                 | 7.0.4   |
| EMDK                      | 7.0.0.2000  |
| MXMF / OSX                | MXMF-8.2.3.1 / QCT.71.7.8   |
| Enterprise Keyboard (EKB) | 1.9.0.9   |
| WiFi                      | FUSION_BA_2_10.0.1.019<br>Application: BA_2_10.0.0.011_N<br>Radio: BA_2_10.0.3.018_N<br>Middleware: BA_2_10.0.1.012_N<br>Firmware: 7.35.205.8 (r) |
| PTT                       | 3.1.35  |
| Touch FW                  | N/A   |
| RxLogger Utility          | 5.4.10.0  |
| B2M                       | N/A   |

|   |   |
|---|---|
|   |   |
| Bluetooth Pairing Utility   | 3.11  |
| Zebra Data Services   | 1.0.0.1002  |
| File Browser  | 1.19.1.5  |
| Stage Now   | 3.1.1.1019  |
| App Gallery   | 3.0.1.7   |
| User Guide  | N/A   |
| Sensors (Accel, Gyro)   | 2061000, 2061000  |
| MobiControl   | N/A   |
| Zebra Volume Control (ZVC)  | 2.0.0.16  |
| Battery Manager   | 1.3.8   |
| ActiveEdge  | 2.5.16  |
| WorryFreeWiFi (SmartMU)   | 3.0.2   |
| SimulScan Demo App (only on Imager input on SE4750/SE4850 configurations) | 3.0.2   |
| SimulScan Engine (only on Imager input on SE4750/SE4850 configurations)   | 2.0.3   |
| Device Central  | 2.0.17.0  |
| Zebra Software License Manager  | 3.1.1   |
| Audio   | 0.24.0.0  |
| Diagnostic Tool   | 1.16.0.1  |
| OEM Config  | 8.1.0.9   |
| FingerPrint   | Zebra/MC33/MC33:7.1.2/01-01-49.00-NG-U14-STD/110:user/release-keys<br>Zebra/MC33/MC33C:7.1.2/01-01-49.00-NG-U14-STD/110:user/release-keys |
| Security Patch Level  | December 01, 2018   |
| GMS Version   | 7.1_r8  |

## 1. CFE v14 Updates:

❖ CFE\_ATLAS\_01-01-49.00-NG-U14-STD.zip (GMS)

### 1. **Android Security Patch Level:** December 1, 2018

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

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

2. SPR35256 – Resolved an issue causing NTP synchronization failure.
3. SPR35065 – Resolved an issue to include the correct EXIF orientation tag data, in the jpeg image capture by camera.
4. SPR34861 – Resolved an issue wherein earlier versions of velocity app installation (1.x) was not persisting after reboot.

## 2. CFE v13 Updates:

❖ CFE\_ATLAS\_01-01-49.00-NG-U13-STD.zip (GMS)

### 1. **Android Security Patch Level:** November 1, 2018

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

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

2. MX, StageNow, EMDK, Datawedge, Enterprise keyboard component updates:

**Note:** For detailed release notes, please refer <http://techdocs.zebra.com>

- MX: 8.2.3.1
  - a. SPR35665 - Resolved an issue wherein Google keyboard settings are not persisting through a reboot when configured directly after factory reset.
  - b. SPR34771 - Resolved a synchronization issue in Mx.
- StageNow client: 3.1.1.1019
- EMDK: 7.0.0.2000
- DataWedge: 7.0.4
- Enterprise Keyboard: 1.9.0.9
  - a. SPR35603 - Fixed an issue wherein Enterprise Keyboard was disappearing when an external keyboard was connected.
- 3. SPR35286 – Resolved issue where alpha keys do not work properly on 29-key keyboard in certain applications.
- 4. SPR35692 – Fixed an issue where it was not possible to disable "Show virtual keypad" from "Settings / Languages & Input / Physical Keyboard".
- 5. Added enable/disable Settings drawer feature implementation in OSX.
- 6. B2M client included in disabled mode.

## 3. CFE v12 Updates:

❖ CFE\_ATLAS\_01-01-49.00-NG-U12-STD.zip (GMS)

1. **Android Security Patch Level:** October 1, 2018  
Use the link below to see the Android Security bulletin for more information:  
<https://source.android.com/security/bulletin/>
2. Updated below mentioned components:
  - WiFi: FUSION\_BA\_2\_10.0.3.019:
    - a. Enable/Disable FAPI support to turn ON/OFF hotspot via CSP.
    - b. SPR34760 – Resolved an issue wherein the device was unable to reconnect after some idle hours in low coverage.
    - c. Enable/Disable Captive Portal Support.
  - SmartMU: Version 3.0.2:
    - a. SmartMU app name change to WorryFreeWiFi
  - Device Central: Version 2.0.17.0
  - Scanning Framework: Version 19.11.37.1
    - a. SPR34484 - Resolved an issue wherein exceptions were not thrown when multiple apps try to open scanner instance without earlier instance being released.
3. SPR34300 - Added Auto Screen Rotation to Lock screen.
4. SPR35090 – Resolved an issue wherein disabling captive portal detection was not working.
5. SPR35065 – Resolved an issue to include the correct EXIF orientation tag data in the jpeg image capture by camera.
6. SPR35462 – Fixed an issue wherein keyboard selection notification was being shown on hard keypad devices.
7. SPR35216 – Resolved an issue where Proxy Auto Config (PAC) did not work properly following stops/restarts of the PacService
8. SPR35188 - Disabled QC Quick Charge 3.0 which allows the device to charge at 9v (since many 3rd party cables are rated for only 5v use).
9. SPR34978 – Resolved an issue wherein the device was unable to set private apn through EMDK or StageNow.
10. SPR35021 - Resolved an issue where Auto PAC Proxy settings are not preserved after Android desert update.
11. Added new APN for Telstra-M2M.

#### 4. CFE v11 Updates:

❖ CFE\_ATLAS\_01-01-49.00-NG-U11-STD.zip (GMS)

1. **Android Security Patch Level:** September 1, 2018  
Use the link below to see the Android Security bulletin for more information:  
<https://source.android.com/security/bulletin/>
2. Updated below mentioned components:
  - Enterprise Keyboard: Version 1.9.0.4

- Diagnostic Tool: Version 1.16.0.1
  - OEMConfig: Version 8.1.0.9
  - Device Central: Version 2.0.11.0
  - Zebra Software License Manager: Version 3.1.1
  - Zebra Data Services: Version 1.0.0.1002
3. MX, StageNow, EMDK, Datawedge component updates:
- Note:** For detailed release notes, please refer <http://techdocs.zebra.com>
- MX: Version 8.1.0.10
    - a. SPR34716 - Resolved an issue wherein the MX was getting killed by Backup manager and didn't restart properly.
  - StageNow: Version 3.1.1.1018
  - EMDK: Version 6.10.12.1312
  - Datawedge: Version 6.9.49
    - a. SPR34429 – Resolved an issue wherein DataWedge failed to load “default Profile0”.
    - b. SPR34614 – Resolved an issue in DataWedge wherein scanner could not be enabled due to quick enabling and disabling of scanner through Intents.
    - c. SPR34972 – Implemented new parameters in scanner\_input\_plugin API so that the API takes considerable less time to suspend/reenable of the scanner
4. CVE-2018-5383 was corrected preventing unauthenticated BT pairing.
5. SPR34716 - Resolved an issue wherein the MX was getting killed by Backup manager and didn't restart properly.
6. Included Zebra Software License Manager v3.1.1.
7. Added LEAP Profile support.
8. Data Analytics changes:
- DataAnalytics has been renamed to Zebra Data Service.
  - DAInBuiltDCA has been renamed to Zebra Data Service Plugin.
  - SettingsEULA has been renamed to Zebra Data Services.
  - In this release, the ZDS-EULA pop up during configuring the device, can be automatically skipped if the device is configured for Device Owner mode or when SUWByPass is used.
  - DO mode configuration mechanism includes NFC bump, QR code, AFW# and Zero touch.
  - SUW Setup Wizard Bypass can set with PowerMgr CSP.
  - On Automatic skipping of Zebra EULA, Zebra's default settings and data collection rules will be configured on the device.

## 5. CFE v10 Updates:

- ❖ CFE\_ATLAS\_P10\_NG\_01-01.49.zip (GMS)

### 1. **Android Security Patch Level:** August 1, 2018

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

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

### 2. Updated below mentioned components:

- OSX – Version QCT.71.7.7.1
- Scanning Framework – Version 19.11.37.0

3. SPR34695 - Resolved an issue wherein Google play protect setting was not persisting across reboot.
4. SPR35062 - Resolved an issue wherein setting Default Launcher was failing when more than one third party launcher was installed in the device.
5. SPR34648 - Resolved an issue where malformed DHCP Option 150 (TFTP Server Address) was passed during DHCP exchange.
6. SPR34445 - Resolved an issue wherein scanner exceptions were observed while scanning DATAMATRIX barcodes using DS3678 scanner resulting in scanner beam failures.
7. SPR34310 - Resolved an issue where in CANCELREAD API was not working when Continuous Mode was enabled.
8. SPR34757 - Resolved an issue where DHCP Option 42 (NTP servers) has more entries than expected.
9. SPR34046 - Resolved an issue wherein there were Bluetooth scanner disconnections noticed while audio was being played simultaneously on BT headset.

## 6. CFE v9 Updates:

- ❖ CFE\_ATLAS\_P09\_NG\_01-01.49.zip (GMS)

1. **Android Security Patch Level:** July 1, 2018  
Use the link below to see the Android Security bulletin for more information:  
<https://source.android.com/security/bulletin/>
2. Updated below mentioned components:
  - MX – Version 8.0.2.0
  - EKB – Version 1.8.0.8
  - StageNow Client – Version 3.0.1.1038
  - DataWedge – Version 6.8.54
  - WiFi – FUSION\_BA\_2\_10.0.1.019\_N
  - SmartMU – Version 3.0.1
  - OSX – Version QCT.71.7.7.0
  - DataAnalytics – Version 3.3.0.1113
3. After an upgrade from non-EULA to EULA BSP, the Data Analytics Engine (DAE) upgrades to v3.3.0.1113 and takes about 35 secs to initialize for the first time. During this time the Settings->Zebra (EULA) page will show the default status of Device Data toggle button as enabled until initializing is complete.
4. Audio Optimization resulting in a 75% reduction is buffering between HAL and ALSA in both the RX and TX leg of a VoIP Call reducing device's contribution to the mouth to ear delay significantly. Impact is to VoIP use case only on all SKU's.
5. SPR34894 - Fixed an issue in DataWedge wherein scanner could not be enabled due to quick enabling and disabling of scanner through Intents.
6. SPR34743 - Keyboard configuration properties has been changed for software keyboard pop up scenario.
7. SPR34906 - Resolved an issue wherein device used to get stuck in the boot up screen on Velocity app installed devices.
8. SPR33599 - Resolved an issue wherein few system apps were being disabled after Applock whitelist mode was enabled.
9. SPR33818 - Fixed an issue wherein certain decoder type values were not persisting across a scanner enable/disable cycle.

10. SPR34267 – Resolved an issue wherein user was not able to enable USB debugging option using StageNow.
11. SPR33639 - Resolved an issue wherein the customer app install and launch during device sleep state and device stop emitting scan beam after awake from suspend.
12. SPR34614 – Resolved an issue in DataWedge wherein scanner could not be enabled due to quick enabling and disabling of scanner through Intents.
13. SPR33920 - Resolved an issue wherein devices failed to connect to WLAN network if the country selection is set to Japan.
14. SPR34717 - Added support for new method of creating the Applock Whitelist.
15. SPR34346 - Resolved an issue wherein Velocity app installation was not persisting after reboot.
16. SPR34888 - Resolved an issue wherein user could not launch Key Programmer in Settings App.
17. SPR34595 - Resolved an issue wherein Storage Card path was inaccessible through StageNow.

## 7. CFE v8 Updates:

❖ CFE\_ATLAS\_P08\_NG\_01-01.49.zip (GMS)

1. **Android Security Patch Level:** June 1, 2018  
Use the link below to see the Android Security bulletin for more information:  
<https://source.android.com/security/bulletin/>
2. Resolved an issue wherein KeyProgrammer fails to open via Device settings.
3. Build Number format has been updated.
4. Added First Api Level property for MC33 and VC80x products.

## 8. CFE v7 Updates:

❖ CFE\_ATLAS\_P07\_NG\_01-01.49.zip (GMS)

1. **Android Security Patch Level:** May 1, 2018  
Use the link below to see the Android Security bulletin for more information:  
<https://source.android.com/security/bulletin/>
2. Fix for Zebra setup wizard popup after OS upgrade.
3. **Updated below components:**
  - MX: 8.0.0.10
  - StageNow client: 3.1.0.1037
  - DataWedge: 6.8.50
  - Enterprise Keyboard: 1.8.0.8
  - EMDK: 6.9.16.1216
4. Build ID format has been updated.
5. Included Zebra Software License Manager v3.0.1.
6. Added Wi-Fi power table for Japan.
7. SPR34179 – Resolved an issue wherein device connects slowly to an AP.
8. SPR34175 – Resolved an issue wherein device does not show preview information in Messaging App when language toggles from right-to-left.



9. SPR34259 – Added support to use USBMgr CSP to limit the standard 4 options on device to only allow UsbExternalStorageUsage.
10. SPR34307 – Resolved an issue wherein the device was unable to be staged via StageNow.
11. SPR34083/34014/32519 – Resolved an issue wherein disabling WWAN radio via Airwatch using StageNow XML fails.
12. SPR33977 – Resolved an issue wherein set time zone issue observed with StageNow.
13. SPR34213/31491 – Resolved an issue wherein the device was unable to stage via StageNow.
14. SPR34420 – Resolved an issue wherein floating scan bubble issue observed with Enterprise Keyboard.
15. SPR33755 - Resolved an issue wherein the Whitelisted apps were unable to submit XML to MX.
16. SPR33207 - Resolved an issue wherein the Device Diagnostic tool had an issue with reading the Battery Cycles in the application for PP+ batteries.
17. SPR33671 - Resolved an issue wherein user was unable to create WIFI profile with username as backslash followed by number.
18. SPR33862 - Resolved an issue wherein the Screen Time off settings using Display manager CSP was not working.
19. SPR33973 - Resolved an issue wherein erroneously loading default profile by providing feature to ignore disabled profiles in DataWedge.
20. SPR33848 - Added support to included category field in intent profile in StageNow.
21. SPR34189 - Resolved an issue wherein low ram and oom limit adjustments to provide more free memory.
22. SPR33876 - Resolved an issue wherein Display Timeout was unable set via StageNow.
23. SPR33607 - Resolved an issue where few fresh devices were unable to stage after unbox the device.
24. SPR33538 - Resolved an issue wherein the Scanner beam stuck off and No LED beam while pressing scanner button.
25. SPR33981 - Resolved an issue Czech Republic Regulatory Country could not be set using Wifi config profile.
26. Added Enterprise Browser package (com.symbol.enterprisebrowser) to white listed apps.
27. Resolved an issue wherein Settings App crashes while performing "Network Settings Reset".
28. A new device settings menu and an initial setup screen have been added to easily configure the Zebra analytics engine. The initial setup screen will be displayed upon bootup following an Enterprise Reset or Factory Reset. This screen can be skipped on an Enterprise Reset by provisioning using a StageNow profile (PowerMgr CSP), similar to what is available for the Google setup wizard bypass.
29. Resolved an issue wherein Bluetooth tethering was not working.

## 9. Update005 Updates:

- ❖ CFE-VC80x\_MC33-01-01-48-NG-00-A-05.zip (GMS)

| Components | New Features  |
|------------|---|
| OS         | Added support for FIPS  |
| Battery    | Added support for battery hotswap with up to 30 seconds for Wifi/BT persistence |

|           |   |
|-----------|---|
| Scanning  | <p>Added Simulscan on the part numbers with imager<br/> Added support for RS507x<br/> Fixed Bluetooth scanner firmware update failure</p>   |
| DataWedge | <p>Fixes:</p> <ul style="list-style-type: none"> <li>• SPR-33973 Resolved issue where Wrong profile gets loaded when SwitchToProfile intent is used</li> <li>• SPR 33538 – Not able to load the correct profile when Switch To Profile intent is used.</li> </ul> <p>Features:</p> <ul style="list-style-type: none"> <li>• Changed the default Simul Scan template in a DataWedge profile to "Default - Barcode 4.xml".</li> <li>• Added support for Dynamic template parameters in SimulScan configuration.</li> <li>• Added Multibarcode support.</li> <li>• Added a barcode separator for multibarcode feature.</li> <li>• Intent API extensions: <ol style="list-style-type: none"> <li>1. Added support to import full configuration database or profile configuration database via intent API.</li> <li>2. Added support to get and set configuration of Serial Input Plugin settings.</li> </ol> </li> <li>• Added support to install an application while in device in suspend mode and make it to work with DataWedge. (SPR - 33639)</li> </ul> |
| EMDK      | <p>Fixes:</p> <ul style="list-style-type: none"> <li>• Unable to create a DataWedge profile using EMDK Profile Manager.</li> <li>• "getLabelType()" method returns "UNDEFINED" for mailmark and Hanxin barcode</li> </ul> <p>Features:</p> <p>Enhanced Barcode Manager API:</p> <ul style="list-style-type: none"> <li>• Added support for the Mutli-Barcode decoding feature. This feature allows scanning multiple barcodes in one single scan: <ul style="list-style-type: none"> <li>○ Added new value "MULTI_BARCODE" in enum ScanMode to enable decoding multiple barcodes at a time.</li> <li>○ Added new class "MultiBarcodeParams" in ScannerConfig with parameter "barcodeCount" to set the barcode count to be scanned.</li> </ul> </li> </ul> <p>Enhanced SerialComm API:</p> <ul style="list-style-type: none"> <li>• The new flowControlMode feature has been added in the SerialConfig class with RTS_CTS, XON_XOFF and NONE as possible values.</li> </ul>  |

|                 |  |
|-----------------|--|
| MX              | Fixes: <ul style="list-style-type: none"> <li>• "Zebra Mobility Extensions Version" is shown as 1.3 on Airwatch agent when UUT RAM is 85% filled</li> <li>• SPR- 34145: Fixed issue where Wlan with WEP key INDEX 2 is not kept</li> </ul> |
| OEMConfig       | Fixes: <ul style="list-style-type: none"> <li>• "SignalOccurrenceOfThreat" parm is not added in threatStep</li> </ul>  |
| Ivanti Velocity | Integrated Velocity ATTE 2.0   |

## 10. 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.

## 11. 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

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

| <b>Device Part Number</b> | <b>Operating System</b> | <b>Device Part number</b> | <b>Operating System</b> |
|---------------------------|-------------------------|---------------------------|-------------------------|
| MC330K-GE3HA3NA           | Android N               | MC330M-RL4SG2RW           | Android N               |
| MC330K-GE3HA3RW           | Android N               | MC330M-SI2HA2RW           | Android N               |
| MC330K-GE4HA3NA           | Android N               | MC330M-SI30A2RW           | Android N               |
| MC330K-GE4HA3RW           | Android N               | MC330M-SI3HA2NA           | Android N               |
| MC330K-GE4HA4NA           | Android N               | MC330M-SI3HA2RW           | Android N               |
| MC330K-GE4HA4RW           | Android N               | MC330M-SI40A2NA           | Android N               |
| MC330K-GI3HA3NA           | Android N               | MC330M-SI4HA2NA           | Android N               |
| MC330K-GI3HA3RW           | Android N               | MC330M-SI4HA2RW           | Android N               |
| MC330K-GI3HA4RW           | Android N               | MC330M-SI4HG2NA           | Android N               |
| MC330K-GI4HA3NA           | Android N               | MC330M-SL2HA2RW           | Android N               |
| MC330K-GI4HA3RW           | Android N               | MC330M-SL2HG2RW           | Android N               |
| MC330K-GI4HA4NA           | Android N               | MC330M-SL3HA2NA           | Android N               |
| MC330K-GI4HA4RW           | Android N               | MC330M-SL3HA2RW           | Android N               |
| MC330K-GI4HG3NA           | Android N               | MC330M-SL4HA2NA           | Android N               |
| MC330K-GI4HG3RW           | Android N               | MC330M-SN3HA2RW           | Android N               |
| MC330K-GI4HG4NA           | Android N               | MC330M-SN4HA2NA           | Android N               |
| MC330K-GI4HG4RW           | Android N               | MC330M-RL2SG2US           | Android N               |
| MC330K-GL2HA3RW           | Android N               | MC330M-SL4HG2US           | Android N               |
| MC330K-GL3HA3RW           | Android N               | MC330M-SL3HG2US           | Android N               |
| MC330K-GL3HA4RW           | Android N               | MC330M-RL4SG2US           | Android N               |
| MC330K-GL4HA3NA           | Android N               | MC330M-RL3HG2US           | Android N               |
| MC330K-GL4HA3RW           | Android N               | MC330M-SN4HG2US           | Android N               |
| MC330K-GL4HA4NA           | Android N               | MC330M-SI3HG2US           | Android N               |
| MC330K-GL4HA4RW           | Android N               | MC330M-GL4HG2US           | Android N               |
| MC330K-GL4HG3RW           | Android N               | MC330M-GL3HG2US           | Android N               |
| MC330K-RC3HA4NA           | Android N               | MC330M-GL2HG2US           | Android N               |
| MC330K-RC3HA4RW           | Android N               | MC330M-GI3HG2US           | Android N               |
| MC330K-RC3HG4RW           | Android N               | MC330M-GI2HG2US           | Android N               |
| MC330K-RC4HA4NA           | Android N               | MC330K-SN4HG3US           | Android N               |
| MC330K-RC4HA4RW           | Android N               | MC330K-SI3HG3US           | Android N               |
| MC330K-RL3HA3RW           | Android N               | MC330K-GL4HG3US           | Android N               |
| MC330K-RL3HG3RW           | Android N               | MC330K-RC4HG4US           | Android N               |
| MC330K-RL3SG3RW           | Android N               | MC330K-RC3HG4US           | Android N               |
| MC330K-RL4HA3NA           | Android N               | MC330K-GL4HG4US           | Android N               |
| MC330K-RL4HA3RW           | Android N               | MC330K-GI3HG3US           | Android N               |
| MC330K-RL4HG3NA           | Android N               | MC330K-SP4HG4US           | Android N               |
| MC330K-SB3HA4NA           | Android N               | MC330K-SP3HG4US           | Android N               |
| MC330K-SB3HA4RW           | Android N               | MC330K-SB3HG4US           | Android N               |
| MC330K-SB3HG4RW           | Android N               | MC330K-SE4HG3US           | Android N               |
| MC330K-SB4HA4NA           | Android N               | MC330K-SE3HG3US           | Android N               |
| MC330K-SB4HA4RW           | Android N               | MC330K-SE2HG3US           | Android N               |
| MC330K-SB4HG4NA           | Android N               | MC330K-GE4HG3US           | Android N               |
| MC330K-SE2HA3RW           | Android N               | MC330K-GE3HG3US           | Android N               |
| MC330K-SE3HA3NA           | Android N               | MC330K-GE2HG3US           | Android N               |
| MC330K-SE3HA3RW           | Android N               | MC330K-SG4HG4US           | Android N               |
| MC330K-SE4HA3NA           | Android N               | MC330K-SG3HG4US           | Android N               |
| MC330K-SE4HA3RW           | Android N               | MC330K-SG2HG4US           | Android N               |
| MC330K-SG3HA4NA           | Android N               | MC330K-GE4HG4US           | Android N               |
| MC330K-SG3HA4RW           | Android N               | MC330K-GE2HG4US           | Android N               |
| MC330K-SG4HA4NA           | Android N               | MC330K-GI3HG3US01         | Android N               |

|                 |           |                   |           |
|-----------------|-----------|-------------------|-----------|
| MC330K-SI2HA3RW | Android N | MC330M-SN3HG2RW   | Android N |
| MC330K-SI3HA3NA | Android N | MC330M-SL3HG2RW   | Android N |
| MC330K-SI3HA3RW | Android N | MC330M-SI4HG2RW   | Android N |
| MC330K-SI3HG3RW | Android N | MC330M-SI3HG2RW   | Android N |
| MC330K-SI4HA3NA | Android N | MC330M-SI2HG2RW   | Android N |
| MC330K-SI4HA3RW | Android N | MC330M-RL3HG2RW   | Android N |
| MC330K-SI4HG3NA | Android N | MC330M-RL2SG2RW   | Android N |
| MC330K-SL2HA3RW | Android N | MC330M-GL4HG2RW   | Android N |
| MC330K-SL4HA3RW | Android N | MC330M-GL2HG2RW   | Android N |
| MC330K-SN3HA3RW | Android N | MC330M-GI4HG2RW   | Android N |
| MC330K-SN4HA3NA | Android N | MC330M-GI4HG2IN   | Android N |
| MC330K-SN4HA3RW | Android N | MC330M-GI3HG2IN   | Android N |
| MC330K-SP3HA4NA | Android N | MC330M-GI2HG2RW   | Android N |
| MC330K-SP3HA4RW | Android N | MC330K-SP4HG4RW   | Android N |
| MC330K-SP4HA4NA | Android N | MC330K-SP3HG4RW   | Android N |
| MC330K-SP4HA4RW | Android N | MC330K-SN4HG3RW   | Android N |
| MC330M-GI2HA2NA | Android N | MC330K-SN3HG3RW   | Android N |
| MC330M-GI2HA2RW | Android N | MC330K-SL4HG3RW   | Android N |
| MC330M-GI30A2RW | Android N | MC330K-SL2HG3RW   | Android N |
| MC330M-GI3HA2IN | Android N | MC330K-SI4HG3RW   | Android N |
| MC330M-GI3HA2NA | Android N | MC330K-SI2HG3RW   | Android N |
| MC330M-GI3HA2RW | Android N | MC330K-SG3HG4RW   | Android N |
| MC330M-GI3HG2RW | Android N | MC330K-SG2HG4RW   | Android N |
| MC330M-GI40A2NA | Android N | MC330K-SE4HG3RW   | Android N |
| MC330M-GI4HA2IN | Android N | MC330K-SE3HG3RW   | Android N |
| MC330M-GI4HA2NA | Android N | MC330K-SE2HG3RW   | Android N |
| MC330M-GI4HA2RW | Android N | MC330K-SB4HG4RW   | Android N |
| MC330M-GI4HG2NA | Android N | MC330K-RL4HG3RW   | Android N |
| MC330M-GL2HA2NA | Android N | MC330K-RC4HG4RW   | Android N |
| MC330M-GL2HA2RW | Android N | MC330K-GL4HG3RW   | Android N |
| MC330M-GL3HA2NA | Android N | MC330K-GL3HG4RW   | Android N |
| MC330M-GL3HA2RW | Android N | MC330K-GL3HG3RW   | Android N |
| MC330M-GL3HG2RW | Android N | MC330K-GL2HG3RW   | Android N |
| MC330M-GL40A2NA | Android N | MC330K-GI3HG4RW   | Android N |
| MC330M-GL40A2RW | Android N | MC330K-GI3HG3RW   | Android N |
| MC330M-GL4HA2NA | Android N | MC330K-GE4HG4RW   | Android N |
| MC330M-GL4HA2RW | Android N | MC330K-GE4HG3RW   | Android N |
| MC330M-RL2SA2NA | Android N | MC330K-GE3HG3RW   | Android N |
| MC330M-RL2SA2RW | Android N | MC330K-GE2HG4RW   | Android N |
| MC330M-RL3HA2NA | Android N | MC330K-GE2HG3RW   | Android N |
| MC330M-RL3HA2RW | Android N | MC330K-GI3HG3RW01 | Android N |
| MC330M-RL3SA2NA | Android N | MC330K-GE2HA3US   | Android N |
| MC330M-RL3SA2RW | Android N | MC330K-GE2HA4US   | Android N |
| MC330M-RL3SG2NA | Android N | MC330K-SE2HA3US   | Android N |
| MC330M-RL3SG2RW | Android N | MC330K-SG2HA4US   | Android N |
| MC330M-RL40A2NA | Android N | MC330K-GE2HA3RW   | Android N |
| MC330M-RL4SA2NA | Android N | MC330K-GE2HA4RW   | Android N |
| MC330M-RL4SA2RW | Android N | MC330K-SG2HA4RW   | Android N |

## Installation Requirements

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

### IMPORTANT NOTE:

- Upgrading to this OS version (01-01-49.00-NG-U14-STD LG patch v14) blocks the downgrade prior to Update005 releases.
- Users updating from 01-01-49-NG-00-A BSP baseline to LG patch v14 will be allowed only to downgrade till Update005, using the Update005 package. The Base OS versions cannot be flashed anymore.

## Installation Instructions

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### 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 Integrator 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\_ATLAS\_01-01-49.00-NG-U14-STD.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:
    - Gun device: Reboot the device and keep the GUN (grip) trigger held.
    - Brick device: Reboot the device and hold both scan triggers on either side of device simultaneously.
    - 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 “**01-01-49.00-NG-U14-STD**”. 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: **14**
  - b. ADB Shell method: Execute following command from PC's command prompt:
 

```
$ adb shell getprop ro.device.patch.version
$ 14
```
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\_ATLAS\_01-01-49.00-NG-U14-STD.zip** and drag & drop the file on External SD card
4. Entering into Recovery Mode
  - Gun device: Reboot the device and keep the GUN (grip) trigger held.
  - Brick device: Reboot the device and hold both scan triggers on either side of device simultaneously.
  - 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 “**01-01-49.00-NG-U14-STD**”. 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: **14**
  - b. ADB Shell method: Execute following command from PC's command prompt:
 

```
$ adb shell getprop ro.device.patch.version
          $ 14
```
12. Now you are all set to use your MC33X.

## Downloadable Software Included in this Release

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| Package Name                         | Description  |
|--------------------------------------|--|
| CFE_ATLAS_01-01-49.00-NG-U14-STD.zip | OTA incremental LifeGuard CFE v14 update software for GMS build compatible for MC33 and VC80x products |

Last revised: December 07, 2018