Release Notes - <MC67 Android General release SW 01-16-02-4AJ22-K-00-M1-061716 >

Introduction

MC67 is a ruggedized device based on Android for the enterprise market that blends the capabilities of a smart phone with those of a traditional enterprise PDA. MC67 has a number of enterprise-grade features, including a touch-screen that can be used with gloves, support for stylus input for signatures, barcode capture capability.

It also features MX to make the Android operating system more enterprise ready, with security enhancements and hooks for device management tools, and is designed for a longer lifecycle than the typical smart phone. MC67 is designed in response to customer feedback from using consumer-grade smart phones in the workplace.

With MC67 the workers can capture practically any type of data — from bar codes and signatures to photos and videos — improving on the job efficiency and customer service. The screen is optimized for Enterprise viewing, helping ensure the battery lasts a full shift. And with a drop, tumble and environmental sealing specification you can count on, it has the durability required to serve your field workers for years.

Description

Component	Version
Product Build Number	01-16-02-4AJ22-K-00-M1-061716
KitKat	4.4.4
Kernel	3.4.48
Android SDK Level	19
Bluetooth Stack	4
DataWedge	3.3.12
Scanning Framework	6.23.0
MSP	7.08.85
DWDemo	2.0.7
Fusion	A_4.01.0.0.011
MX	TI_OSX_4.5-2 , 5.0.1.4
PTT	3.1.20
RxLogger	3.0.0.52
EA	2.56
SPAM	2.19
StageNow	2.2.1.1445
B2M Elemez	1.0.0.287
Data Analytics	1.0.2.1590
App Gallery	2.2.0.1
SOTI	12.2.0 Build 23434
EMDK	4.1.2.0
ZVC	1.1.15
BaseBand	3.320

Changes

1. Update to KK
2. Added support for 180 degree rotation.
3. Android Security Patch Level 2016-05-01
4. Added Auto WWAN Firmware update

SPR fixes

1. Corrected an issue where the device would attempt to obtain an IP address via DHCP before Ethernet was connected.
2. SPR28252 – Use-after-free vulnerability patch.
3. SPR28147 – Android Stagefright patch.
4. SPR27006 - GPS stops reporting a fix after a service thread leak.
5. SPR28631 - Fix for keyboard Repeating Key Issue.
6. SPR27892 - Browser cannot capture function keys

Contents

1. M67N0KXXVRUEN10617.zip   –   MC67 OS Recovery Update package (If updating from JB this package will perform an Enterprise Reset)
2. M67N0KXXVAUEN10617.apf   –   MC67 OS update package file for deployment using MSP (If updating from JB this package will perform an Enterprise Reset)
3. M67N0KXXVRBEN10617.zip   –   MC67 JB to KK OS Recovery Update package (This package is used to Update from JB to KK to maintain user data. SVN must be updated separately per instructions below. Note: If the JB device is encrypted M67N0KXXVRUEN10617.zip should be used instead.)
4. M67N0KXXVABEN10617.apf   –   MC67 JB to KK OS update package file for deployment using MSP (This package is used to Update from JB to KK to maintain user data. SVN must be updated separately per instructions below. Note: If the JB device is encrypted M67N0KXXVRUEN10617.apf should be used instead.)
5. M67N0KXXVREEN10617.zip – Enterprise Reset Recovery Package
6. M67N0KXXVAEEN10617.apf – Enterprise Reset file for deployment using MSP
7. M67N0KXXVRFEN10617.zip – Factory Reset Recovery Package
8. M67N0KXXVAFEN10617.apf – Factory Reset file for deployment using MSP
9. MC67KKUpdSVN10617.zip –Recovery Package to update SVN (This package must be used with packages #3)
10. MC67KKUpASVN10617.apf –SVN update AirBeam Package(This package must be used with packages #4)

Device Compatibility

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

Device SKU	Operating System
MC67NA-PDAEAG00500	JB,KitKat 4.4.4
MC67NA-PDAEAA0050U	JB,KitKat 4.4.4
MC67NA-PDAEAB0050U	JB,KitKat 4.4.4
MC67NA-PDAEAF0050U	JB,KitKat 4.4.4
MC67NA-PDAEAA00500	JB,KitKat 4.4.4
MC67NA-PDAEAB00500	JB,KitKat 4.4.4
MC67NA-PBAEAA00500	JB,KitKat 4.4.4
MC67NA-PBAEAB00500	JB,KitKat 4.4.4
MC67NA-PDAEAA0050F	JB,KitKat 4.4.4
MC67NA-PDAEAB0050F	JB,KitKat 4.4.4

Installation Requirements

This SW update is intended for the MC67NA Android device running JB (030515) or KK.

Installation Instructions

1. OS Recovery Update
   a. Connect the USB cable from your PC to the device.(pls connect to external A/C or make sure battery at least 50% charged)
   b. 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 (M67N0KXXVRUEN10617.zip or M67N0KXXVRBEN10617.zip) and MC67KKUpdSVN10617.zip (SVN update if you are using JB to KK persistence recovery file) packages to Internal storage or SD card partition .
   c. Press and hold 1+9+Power Key. Unit will reboot at this point.
   d. Keep holding down PTT Trigger. (Release 1+9+ Power Button at this point.)
   e. The Android logo should appear on screen. Release PTT Trigger.
   f. Click on Vol+ or Vol- to navigate and select appropriated storage .Select 'apply update from sdcard' if you copy zip files on SD card partition. Select 'emulated storage' if you copied zip files on Internal storage
   g. Click on on PTT Trigger to select the option
   h. Click on Vol+ or Vol- to navigate to the recovery update zip file
   i. Click on on PTT Trigger to select the recovery update zip file
   j. Make sure to run SVN update package MC67KKUpdSVN10617.zip using recovery if JB to KK persistence is required

2. MSP OS package update
   a. Upload MSP package to the MSP server
   b. Connect Wi-Fi network which is connected to MSP server.
   c. Launch the MSP Rapid Deployment App located in the Apps section.
   d. Click on Scan Barcodes and scan barcodes
   e. pls update SVN using MC67KKUpASVN10617.apf

3. Downgrade procedure - recovery
       To downgrade from MC67 KK to MC67 JB(030515)

      1. Copy released MC67 JB OS recovery package & JB EnterpriseReset package to the root folder on internal SD card
      2. Reset to recovery mode and update the JB OS recovery package followed by EnterpriseReset package using the recovery

Known issues:

1. Key remapping takes approximately 40 seconds after the first reboot to take effect. There is no delay on subsequent reboots.

2. MC67 Numeric Android Keyboard has multi-tap physical key board. If a user needs to input a character 'B', he needs to press orange modifier key + press the numeric key '2' twice. The limitation with multi tap key is, it cannot return unique key codes for multi-taps. Ex: Numeric key '2' returns character 'A' on single tap, return 'B' on double tap and returns character 'C' on triple tap. But the key code returned by Android for numeric key '2' is KEYCODE_A (value=29) regardless of the single tap, double tap or triple tap. This limitation affects those applications which have logic based on the key code value returned by Android. Ex: If an application is designed to open calendar settings on receiving KEYCODE_B (value=30), it would not function as intended. Reason: Android would never return KEYCODE_B (value=30) on double tap. Instead, it would return KEYCODE_A (value=29). Since this is a design limitation of Android framework, we cannot fix this issue. Workaround: Using the SIP keyboard, it would return the desired key code and the applications designed on the key code input, would work properly.

3. Cisco any connect VPN client and Open connect VPN client are not supported.
4. If Data Partition of the device is encrypted JB to KK Persistence cannot be supported hence a enterprise reset is required before OS upgrade.

Part Number and Release Date

M67N0KXXVRUEN10617.zip
M67N0KXXVAUEN10617.apf
M67N0KXXVRBEN10617.zip
M67N0KXXVABEN10617.apf
M67N0KXXVREEN10617.zip
M67N0KXXVAEEN10617.apf
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