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# **Release Notes - <TC55CH GMS Rev A Plus (GA) SW V1.05.01G.02>**

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## **1 Introduction**

TC55CH 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. TC55CH 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 and IP67 rating for dust and water protection.

It also features Extensions (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.

TC55CH is designed in response to customer feedback from using consumer-grade smart phones in the workplace, especially with the bring-your-own-device (BYOD) trend, where employees use their own choice of device for work.

With TC55CH the workers can capture practically any type of data — from bar codes and signatures to photos, videos and NFC — 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.

The TC55CH is only supported on the Verizon network in the USA. It will work on LTE, EVDO, and 1xRTT. This is a Data Only product and has no voice call capability.

GMS package includes:

### **New Applications**

- Chrome – Google’s WWW browser
- Google - Search and Google Now
- Gmail – email client for gmail
- Google Docs / Drive – Access to Google Drive files
- Google Settings – Control Panel for Google apps, also Android Device Manager Access
- Google + - Google Social Networking
- Hangouts - Extension of Google+ for calls and videos and pictures
- Maps – Google Maps and Navigation
- Play Games – Buy games and play
- Play Magazines – Buy multimedia magazines and newspapers
- Play Books – Buy, Store, and Read Books
- Play Music – Store, Play, Buy Music
- Play Movies and TV – Buy, Play, and Store Movies/TV Shows
- Play Store – Store and purchase Android Applications
- Voice Search – Voice driven web search
- IME Search – Keyboard driven search
- YouTube – Video Sharing

### **Updated Applications**

- Calendar – Same as the AOSP Calendar application except it includes synchronizing Google Calendar Events.
- People - Same as the AOSP People application except it includes synchronizing Google Contacts.

## **2**     Enterprise Mode

TC55CH standard configuration (GMS build) is by default (out of box) configured as:

- 100% Google CTS requirement compliant
- Enterprise Mode disabled

MSI provides EnterpriseEnabler package to grant full permissions to MSI enterprise features (e.g., MX, Datawedge, etc). **It is required to apply EnterpriseEnabler package to access full MSI enterprise features!**

Options to enable Enterprise Mode:

- Manual Activation from the UI - T55N1JUXCPKEN10512.apk
- Activation via recovery mode - T55N1JUXCRPEN10512.zip
- Scripted via USB (ADB) installation without UI / Silent Installation - T55N1JSXCPKEN10512.apk
- 3rd Party MDMs - T55N1JSXCPKEN10512.apk
- RD/MSP - T55N1JUXCAPEN10512.apf

### **3 Description**

1. JellyBean 4.1.2
2. Kernel v3.4.0
3. DataWedge v1.7.6
4. Scanning Framework 1.19.P03
5. MSP v7.08.67
6. MX 3.2.2-6
7. WiFi/BT FW M8960AAAAANAZW1040010
8. RIL 1.0.111
9. Modem PI-20015107.31

### **4 Contents**

### **5 OS Packages**

1. T55N1JEXCPUEN10512.zip – TC55CH OS Recovery Update package
2. T55N1JEXCAUEN10512.apf – TC55 OS Update package file for deployment using MSP
3. DataWedgeApp010716.zip – Fix for - Datawedge: Cannot export without \SD Card folder. No virtual folder.

### **EnterpriseEnabler Packages**

4. T55N1JUXCPKEN10512.apk – EnterpriseEnabler Manual Activation from the UI

5. T55N1JSXCPKEN10512.apk – EnterpriseEnabler Scripted installation without UI (Silent Installation) via USB (ADB) or via MDMs like SOTI
6. T55N1JUXCRPEN10512.zip – EnterpriseEnabler Manual Activation in recovery mode
7. T55N1JUXCAPEN10512.apf – EnterpriseEnabler for RD/MSP deployment

## 6 Device Compatibility

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

Device P/N	Operating System
TC55CH-G011EE	JellyBean 4.1.2
TC55CH-G011ES	JellyBean 4.1.2
TC55CH-GC11EE	JellyBean 4.1.2
TC55CH-GC11ES	JellyBean 4.1.2

## 7 Vendor information

ShelterGMS certified by Google via 3rd party partner and related changes including:

- ro.product.manufacturer(android.os.Build.MANUFACTURER) = GIGABYTE  
(Apps/services who rely on property to be “Zebra” need to be modified according. For example, EHS 1.2 or later versions should be used for this change)
- USB VID changed in v1.05.01G.02  
(Android USB Driver v1.2 or later versions should be used to support ADB)

## 8 Installation Requirements

- This SW is intended for the TC55CH device

## 9 Installation Instructions

1. OS Recovery Update
  - Connect the USB cable from your PC to the device and enable USB mass storage mode on the device.

- On your PC you should see an internal and external USB mass storage drive (SD card) appears in the File Explore and copy the recovery update zip file and andEnterpriseEnabler zip file to any storage.
  - Press and hold on the device the Power button, Scan/Action button and Vol+ until the screen is turned OFF
  - Release the Power and Scan/Action buttons and continue to hold Vol+ button
  - The device should enter to Recovery update mode
  - Release Vol+.
  - Click on Vol+ or Vol- to navigate and select appropriated storage
  - Click on on Scan/Action button to select the option
  - Click on Vol+ or Vol- to navigate to the recovery update zip file
  - Click on on Scan/Action button to select the recovery update zip file
  - **Do following steps to enable enterprise mode to access full MSI enterprise features**
  - Press and hold on the device the Power button, Scan/Action button and Vol+ until the screen is turned OFF
  - Release the Power and Scan/Action buttons and continue to hold Vol+ button
  - The device should enter to Recovery update mode
  - Release Vol+
  - Click on Vol+ or Vol- to navigate and select appropriated storage
  - Click on Vol+ or Vol- to navigate to the EnterpriseEnabler zip file.
  - Click on Scan/Action button to select the EnterpriseEnabler zip file
  - Click on Vol+ or Vol- to navigate to reboot and select it
  - After reboot and device will be ready to use.
2. MSP OS package update
- Please refer Mobility Service Platform deployment guide for instruction.

## 10 Release Notes

- 142819 - CTS Verifier Data Backup Test
- 141120 - Turn off debuggable of com.redbend.client.StartupActivity
- 141066 - Remove the android.hardware.telephony.gsm/cdma.xml
- 140423 - CTS android.permission
- 140422 - CTS android.providern
- 140421 - CTS Verifier SUID File Scanner
- 140419 - CTS Verifier Backup
- 141180 - android.security.cts.PackageSignatureTest failed
- 141309 - It is not possible to install purchased apps on GMS verion using Google play
- 141175 - Add enterprise enabled logic in FullPackageUpdate.zip

## 11 Known issues, Tips and Workarounds

Description	Notes/Recovery
Observing NVitems push after OSupdate which intermittently locks up the device.	This would only be seen when the BSP is reflashed on the device. If the modem is not responding at boot time just after the OS image is updated, the terminal should detect this condition. If it does, it will automatically reboot and recover. If the terminal did not automatically detect this condition, the phone will remain in the no service state. To overcome this issue, the user needs to cold boot the terminal. Once the NV item update has succeeded the terminal can then be used as expected. This is not a common occurrence and may only be seen during OS reflash.
<ul style="list-style-type: none"> <li>• Charging may fail on the first attempt (rarely) the LED will blink red quickly to indicate this (114388)</li> <li>• Connecting a unit with a dead battery to a charger (rarely) does not turn on (115212)</li> </ul>	To recover, reinsert the charger.
Charging a deeply-discharged battery will cause the LED to blink red slowly... this is normal and can last up to 8 minutes until the normal charging green LED is seen (114428)	This is normal behavior.
Scanner/camera does not enable after restore of Datawedge (113726)	To recover, select a Datawedge profile after the restore operation.
For a mixed deployment comprising broadcast and hidden SSID's, the device cannot connect to a hidden SSID if the profile was added manually by selecting a broadcast SSID listed in "WiFi" Settings Page.(114289)	<p>To workaround this problem, there are two solutions:</p> <ol style="list-style-type: none"> <li>1. Manually add the profile using the "Add network" option (Click on "+" in "WiFi" Settings Page)</li> <li>2. To configure programmatically, use the <a href="#">wifiConfiguration class</a> to create a profile that has the hidden SSID field parameter set to true. Here is a code sample to do this:</li> </ol> <pre>import android.net.wifi.WifiConfiguration; WifiConfiguration configuration = new WifiConfiguration(); configuration.hiddenSSID = true;</pre>

## 12 Part Number and Release Date

T55N1JEXCPUEN10512

T55N1JEXCAUEN10512

DataWedgeApp010716

T55N1JUXCPKEN10512

T55N1JSXCPKEN10512

T55N1JUXCRPEN10512

T55N1JUXCAPEN10512

September 9, 2014