



## **Grand Central Hub User's Manual**

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## SCOPE

The scope of this document is to provide instructions for end users of **Grand Central Hub (GCHub)**.

## VERSION

Ver	Date	Update(s)	Author(s)	Approver
0.1	10/15/15	First Draft	C Cheng	
0.2	10/21/15	Mods for WondaLink FCC submission	C Lawler	

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## 1 INTRODUCTION

### 1.1 OVERVIEW

Grand Central Hub is a small device with network access (wired and wireless), 2 USB ports, and a 5" touchscreen display. The main purpose of the device is to allow iPhone and Android devices to be connected via USB, and to interrogate the devices to ascertain various details about the device such as IMEI, memory size, OS version, etc. This data is then passed to a trusted database for analysis and assessment of trade-in value.

### 1.2 REQUIREMENTS

Grand Central Hub needs

- Power – 5V/2A power supply included
- Network connectivity (wired initially, wireless after activation)

### 1.3 CONTACT INFORMATION

Contact [GCHubSupport@T-Mobile.com](mailto:GCHubSupport@T-Mobile.com) for assistance.

## 2 SETUP

### 2.1 PACKAGE CONTENTS

A complete Grand Central Hub unit includes

- Hub
- 5V/2A power cable (micro USB)
- Lock cable

Other items needed for use:

- Android USB cable (micro USB)
- iOS USB cable (lightning cable)

### 2.2 HUB



Left side of Hub:

- 2 USB ports
- 1 RJ45 port

Back side:

- Micro USB power port
- HDMI port (behind door)

Right side:

- SDCard port (behind door)

## 2.3 INSTALLATION

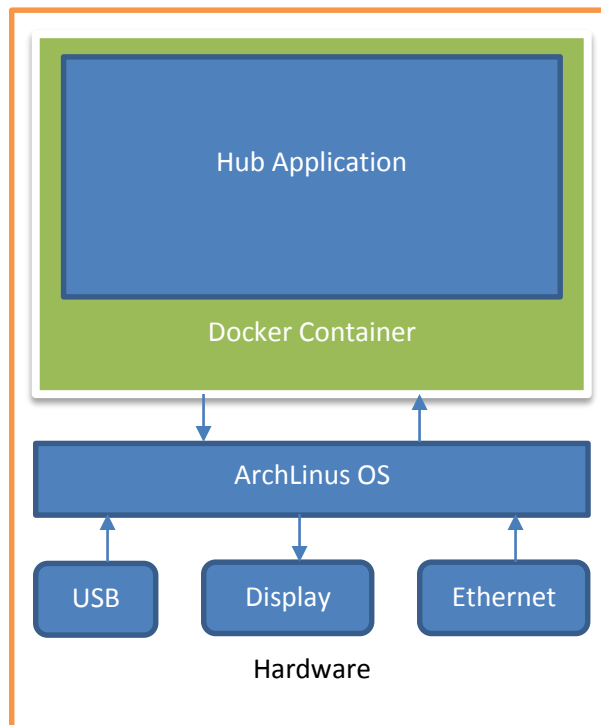
1. Boot GCHub
  - a. Plug in to network
  - b. Plug in to power
  - c. Wait for startup scripts. (~6 seconds after plug in, then will see penguins and scrolling & static text.) Takes 1-2 mins.
  - d. Displays splash screen:



### GRAND CENTRAL HUB

- e. Pulls latest docker container down
  - f. Starts the docker container and starts application
  - g. Displays PIN
2. Authorize GCHub
  - a. Log in to GCR with NTID
  - b. Enter PIN
  - c. GCHub now ready to accept devices

## 2.4 ARCHITECTURE



## 3 GENERAL USE

### 3.1 TO START UP & SHUT DOWN

GCHub should be left on.

### 3.2 TO GENERATE QUICKCODE FOR ONE DEVICE

1. Turn on and unlock phone device
2. Connect device to either USB port
3. If Android,
  - a. Enable USB debug
4. If iOS
  - a. Accept trust prompt
5. GCHub will return barcode and QC and IMEI
6. When completed, disconnect device

### 3.3 TO GENERATE QUICKCODE FOR TWO DEVICES

1. Turn on and unlock both devices
2. Connect one device to either USB port
3. Connect other device to other port
4. Enable USB/Trust
5. First device connected will show on top of screen
6. Second device connected will show on bottom of screen

## 4 TROUBLESHOOTING

### 4.1 COMMON ERRORS

1. "Unauthorized device" on screen
  - a. Trust device/enable USB debugging
2. Connected device does not start
  - a. Ensure the device has enough charge to turn on and the screen is unlocked prior to connecting. The Hub will charge a connected device.
3. "?" is displayed on Hub screen
  - a. Unplug the device and plug in again to try the communication again

### 4.2 POTENTIAL REMEDIES

These instructions will be made available via T-Community.

1. Power cycle the GCHub -- This should fix most issues
  - a. Unplug the power cable from the device for 5 seconds.
  - b. Plug the cable back in and wait for the Couple to reboot. This may take a few minutes. You will need to go through the Authorization process again – see section 2.3.2.
2. If it still is not working, check the following symptoms:

- a. GCHub can't get quick codes.
  - i. Check network
    - 1. Is the network cable plugged in on both ends? Is the network down locally?
      - a. Does a different GCHub work with that network cable?
        - i. If no, try a different cable. If another cable doesn't work, it's probably a network issue.
        - ii. If yes, original GCHub has an issue.
      - b. Blinking lights
    - 2. The GCHub must not be connected to T-Mobile's internal network - check that it is on the dedicated network assigned for it.
    - 3. Is Grand Central working?
      - a. Login to Grand Central on the designated terminal
- b. Display doesn't work
  - i. Check that the power cable is correctly plugged in at both ends and power is on
  - ii. Does a different GCHub work with the same power and network connections? If not, try a different power cable.
  - iii. Otherwise, replace GCHub. contact GCHub Help and they will assist you to get the device sent in and replaced.
- c. Device won't turn on
  - i. Check that the power cable is correctly plugged in at both ends and power is on
  - ii. Does a different GCHub work with the same power and network connections? If not, try a different power cable.
  - iii. Otherwise, replace GCHub. contact GCHub Help and they will assist you to get the device sent in and replaced.

## 5 FCC REGULATIONS

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

### **FCC RF Exposure Compliance**

This equipment complies with radio frequency (RF) exposure limits adopted by the Federal Communications Commission for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.