parkrun Portable Installation Instructions

Lawrence Billson & Dominic Watkins, 2016

Prerequisites:

You will need:

- A Kingston MLWG2 wireless router
- A USB memory device
- A computer with:
 - o WiFI
 - Terminal emulation software (e.g. PuTTY) or 'terminal' on Mac OSX

I'm a competent UNIX user with an MLWG2, c'mon, give me a shot!

As long as you understand that you're not going to get remote or phone support, here's the process flow:

- Prepare a USB stick with the upgrade software
- Boot and upgrade your MLWG2 to run OpenWRT and parkrunPortable
- Testing

Prepare the USB stick

- 1. Format your USB memory to be FAT32
- 2. Download the USB stick software from github https://github.com/lawrencebillson/parkrun/raw/master/tmp/usbstick.zip
- 3. Unzip the files into the root folder of your USB stick

Install OpenWRT on your MLWG2

- 1. Confirm that your MLWG2 is completely powered off (no LEDs lit)
- 2. Confirm that your MLWG2 is NOT connected to a wired network.
- 3. Insert the USB memory
- 4. Hold down the power button on your MLWG2 for at least 10 seconds until the blue lights come on
- 5. After waiting for the MLWG2 to boot, connect to the MLWG2-??? from your WiFi computer
- 6. Open terminal and type in window: telnet 192.168.201.254

Username: admin

press return when prompted for password(password is blank).

You will be greeted with a # prompt.

7. To copy the OpenWRT software onto the MLWG2s flash memory copy and paste each of these commands one at a time. Once finished you can close the terminal window. Note: When the (e)/(w) at the end stops switching they are finished:

Then copy and paste:

mtd write -r write /media/USB1/openwrt-15.05.1-ramips-mt7620-mlwg2-squashfs-sysupgrade.bin KernelB

Testing

- 1. Connect to the parkrunPortable on the wireless LAN, password: bushypark
- 2. Copy this address into your web browser: 192.168.2.1
 You should now see the controls for parkrunPortable in your browser window!
- 3. Read Bron's instructions (from the GitHub wiki) and process some results before using it on a live parkrun; most run directors should have access to the test system.

Notes:

- The procedure for installing OpenWRT on the MLWG2 comes from here:
 https://drive.google.com/folderview?id=0B0CKglNyN0URflpRWFMyWUFQa1dsRUJIdlpoZTAtNGIH
 STdJY041NGd2ZmRfSDRhNkNOSkU&usp=drive web
- If this goes wrong, sorry but we can't offer phone support.
- If you want to muck around with stuff like root passwords, etc, take a look in the /tmp folder in the repo; there's heaps of UNIX goodness in there.