IoT: Client Devices

Reversing: Download and Extract

Firmware Image

TP-LINK HS110 V1

- http://www.tp-link.com/us/ download/ HS110.html#Firmware
- ZIP archive, go ahead and unzip
- You'll have some files and a BIN file
- BIN file is the firmware image!



What Does it Do?

SMART PLUG

- Programmed via app
- Provides Usage, time used information
- uses Kasa app (see app store, google play)

STILL USES FULL LINUX!



DECIMAL	HEXADECIMAL	DESCRIPTION
15904	0x3E20	U-Boot version string, "U-Boot 1.1.4 (Oct 16 2015 - 11:22:2
2)"		
15952	0x3E50	CRC32 polynomial table, big endian
17244	0x435C	uImage header, header size: 64 bytes, header CRC: 0xA2B5F4E
6, created:	2015-10-16 03:22	:22, image size: 38777 bytes, Data Address: 0x80010000, Entry
Point: 0x8	0010000, data CRC	: 0xFED80D4A, OS: Linux, CPU: MIPS, image type: Firmware Imag
e, compress	ion type: lzma, i	mage name "u-boot image"
17308	0x439C	LZMA compressed data, properties: 0x5D, dictionary size: 33
554432 byte	es, uncompressed s	ize: 112564 bytes
66240		uImage header, header size: 64 bytes, header CRC: 0x4D2B83A
C, created:		:56, image size: 772570 bytes, Data Address: 0x80002000, Entr
		C: 0xC849B1ED. OS: Linux. CPU: MIPS, image type: OS Kernel Im
		image name: "Linux Kernel Image"
66304	0x10300	LZMA compressed data, properties: 0x5D, dictionary size: 33
		ize: 2238780 bytes
1114816	0x1102C0	Squashfs filesystem, little endian, version 4.0, compressio
		194 inodes, blocksize: 16384 bytes, created: 2015-10-16 03:2
5:36	.c. 2112003 by cc3,	131 Modes, Beecks 120. 10301 By ces, Credeca. 2013 10 10 03.2
5.50		
ccl amb@ubum	tu:~/Work/tplink	ė N

Now What?

Let's take a look inside

Onto Analysis!