Initial attempt at a Davinci Pro protocol analysis

Query Protocols

XYZv3/query=a

XYZv3/config=lang:[en]

ok<LF>\$<LF>

XYZv3/config=ssid:[SSID,Password With Spaces If Needed,4]

(4 = channel number)

XYZv3/config=disconnectap

ok<LF>\$<LF>

XYZv3/query=4

ok<LF>\$<LF>

4:{"wlan":{"ip":"0.0.0.0","ssid":"SSID2","channel":"4","MAC":"20:20:20:20:20:20:20"}}<LF>\$<LF>

XYZv3/config=name:[Davinci 3D]

XYZv3/query=W

Upload Protocol:

Input

Response

00000000 00000010 00000020		76 33 2f 75 2e 67 63 6f		61 64 3d 4d 32 35 30 34		XYZv3/up load=MyT est.gcod e,25040.
00000000	6f 6b 0a				ok.	•
00000021 00000031 00000041 00000051	33 57 54 00 00 00	00 00 00 20 57 01 05 00 00 00 00 00 00 00 00 00	00 00 00	4 50 46 4e 4b 0 12 4c 00 00 0 00 00 00 00 0 00 00 00 00	00 00 00 00	3DPFNKG1 3WTWL
00002015 00002025		00 00 00 00		0 00 00 00 00	00 00	
00000003	6f 6b 0a				ok.	
0000202D 0000203D		01 00 00 20 8b 79 9a ch		l b5 Of 1e 37 l 99 9a f8 6a		d}7 *.h.y (j
0000601D 0000602D 0000603D	fd 50 f2	b4 da 8b 94 60 fe d9 65 b7 00 00 00	5 92 95 c6	B ee Od 58 64 B 7f Ob dd ac		xXd~2 .P.`.ee
00000009	6f 6b 0a				ok.	
00006045 00006055		03 00 00 01 88 8a da 38		3 19 4e d6 e8 3 bd 87 e2 59		5. gqY
00006205 00006215		f9 2e 76 d0 fa 51 1f 48		7 68 cb 43 a2 0 00 00	16 ec	v.F s7h.C v>Q.H
0000000C	6f 6b 0a				ok.	
00006221 00006231			5 70 6c 6f	61 64 44 69	64 46	XYZv3/up loadDidF inish
0000000F 00000012 00000015					ok. ok. ok.	

Decoding the Status Response

```
b: Baseplate Temperature
b:26
d: Progress (% Complete, Time elapsed -mins, Estimated time - mins)
d:0,0,0
e:0
f:1,234831
i: Serial Number
i:9Q7KEPAZ5DE12KA401
j: Status
j:9511
9511 – Idle
9700 - Button Pressed when Idle
9500 – Initialising (also returns E22$ when busy uploading / initialising)
9501 - Heating
9601 – Paused when heating or printing
9505 – Printing
9506 - Cooling
9508 - Complete / Cancel - Bed Retracting
9509 - Complete - Press OK Button
L: Life (?, ?, Lifetime in minutes)
L:1,64260,20802
                         (probably on time and print time)
m:0,0,0
o:p8,t1,c1,a-
O:{"nozzle":"210","bed":"40"}
p:dvF1W0A000
s: Status (dr=door)
s:{"fm":1,"fd":1,"dr":{"top":"off","front":"off"},"sd":"yes","eh":"0","of":"1"}
t: nozzle temperatures
t:1,22
v: software version
v:1.3.1
w: serial number of cartridge
w:1,GBA66TH59E0069
n: name of printer
n:Davinci 3D
X:2,GB-0004-0000-TH-000-0000-00000
l: Language
l:en
V: Wifi Version
V:5.1.5
4: IPV4 Wifi Details
4:{"wlan":{"ip":"192.168.1.7","ssid":"My-SSID","channel":"8","MAC":"20:20:20:20:20:20"}}
```