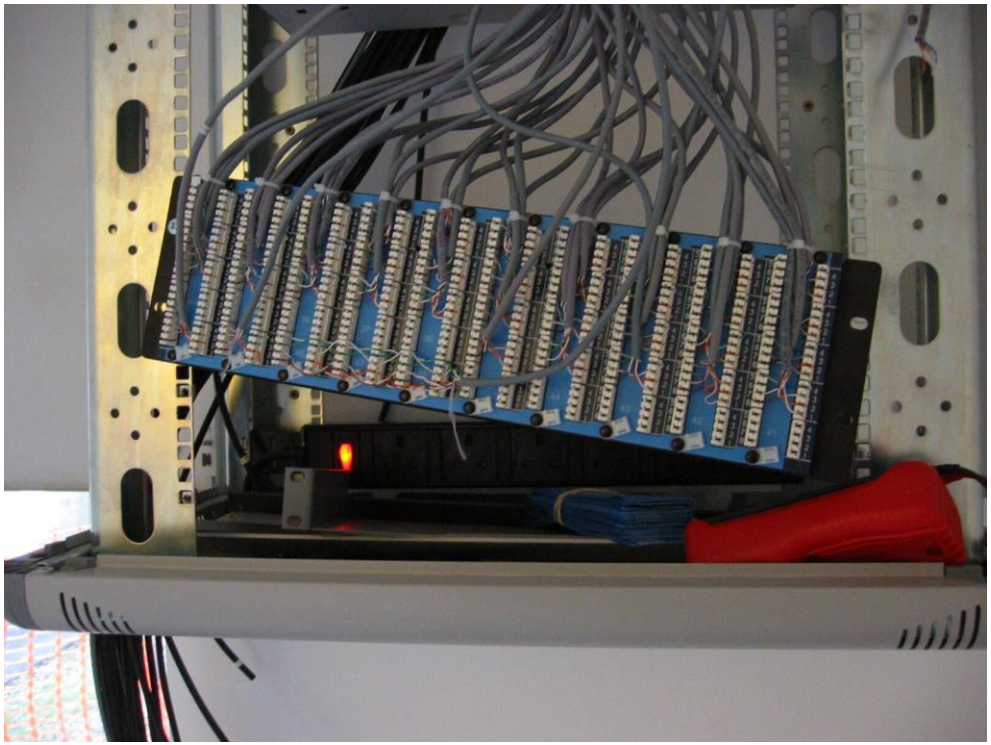
Data, Phone, RF Coax and Alarm Cabling Information

12A Newtown Road

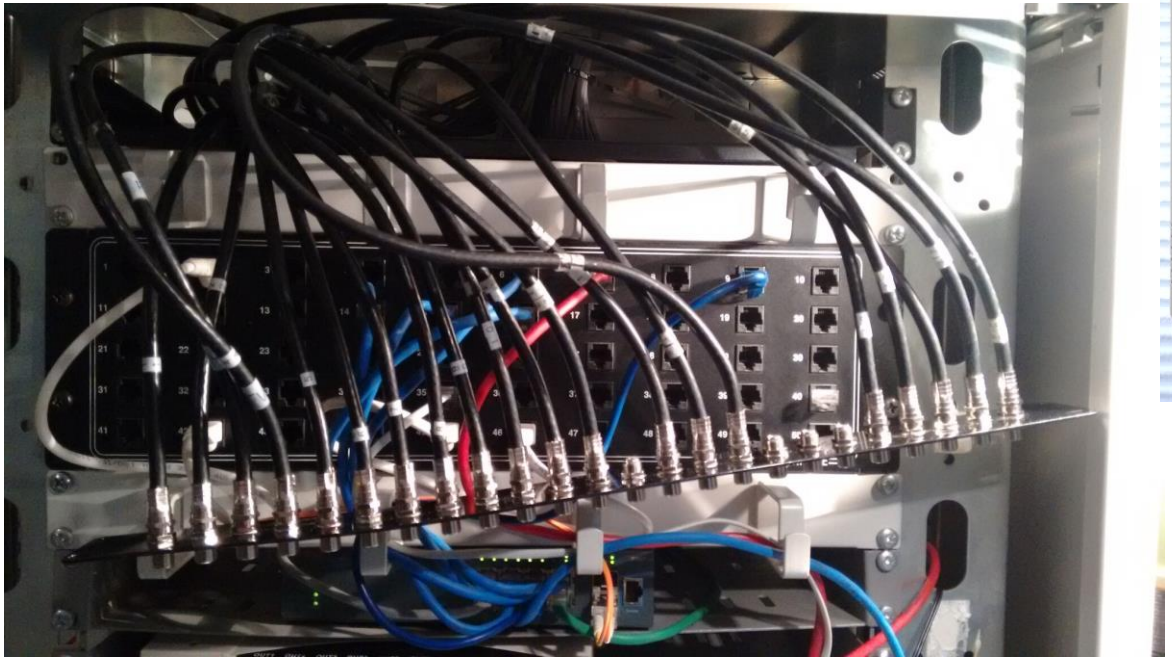
Last updated April 2024

Notes:

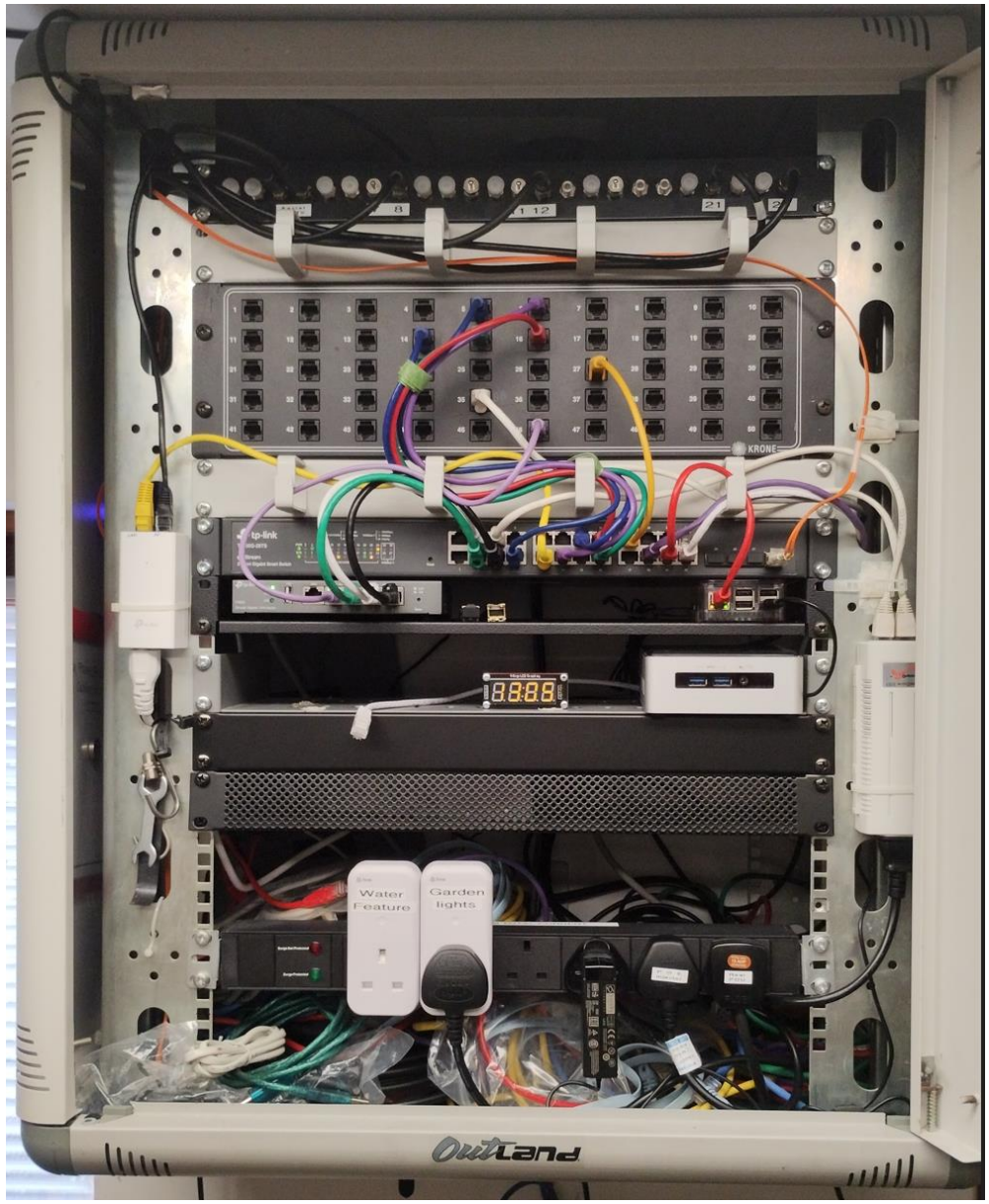
- Cabling was installed during the construction of the house June-December 2004
- All data cabling is Cat5e and was tested at installation using an Agilent Framescope 350 for compliance.
- All RF coax cable is CT100, braid and copper foil outer shield, foam core and copper inner.
- When the cabling was pulled in each cable was labelled at either end with a number/letter. Elsewhere in this document 'Cable#' refers to this label.
- The Coax cable termination to the 24-way F-connector patch panel was completed in February 2017. Up to this date only the cables in use had been fitted with screw-on F-plugs and connected directly to the RF distribution amplifier.
- The RF distribution amplifier mixes the TV and FM radio signals from the aerials onto each amplifier output. This allows a single cable to feed each TV/FM faceplate. The faceplate contains a filter that splits the signal back into TV and FM radio at the output sockets.
- Some TV/FM faceplates have two coax cables feeding into the backbox. Only ONE is connected. See previous note above.
- The incoming telephone line terminates at a BT master socket in the roof space directly above the loft hatch access. There is an ADSL filter here and separate phone and broadband signals are fed through two CAT5e cables from the roof to the patch panel in the Comms Rack.
- n/c means 'not connected'
- xDSL is cable/connection carrying a broadband Internet signal like ADSL / ADSL2 / VDSL / VDSL2. As of 2017 it was BT supplied FTTC VDSL2. (Feb2023-April 2024 Now Broadband)
- Gigaclear FTTH installed 28/03/2024



November 2004



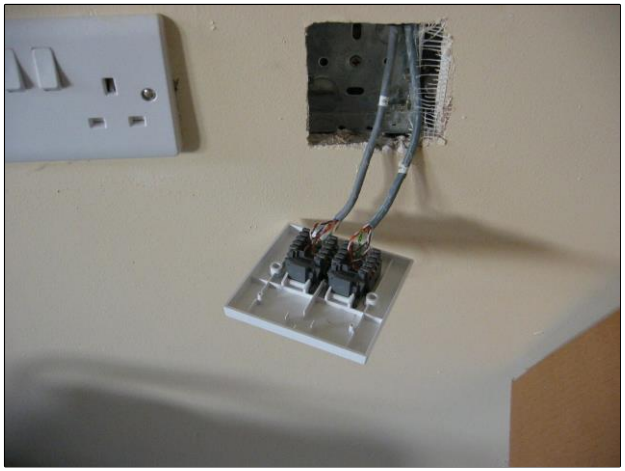
February 2017

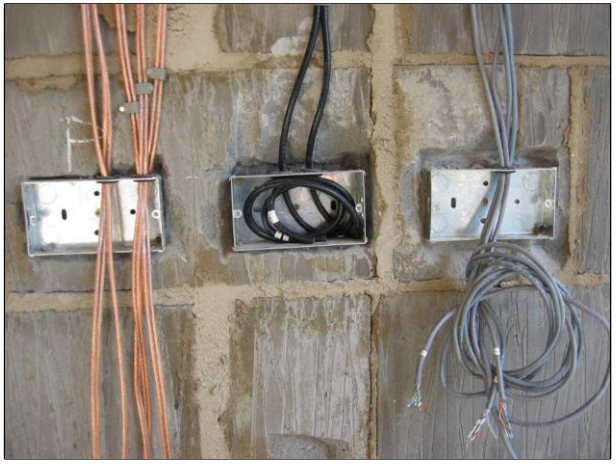


April 2024

Cabling feeding from garage up to roof space

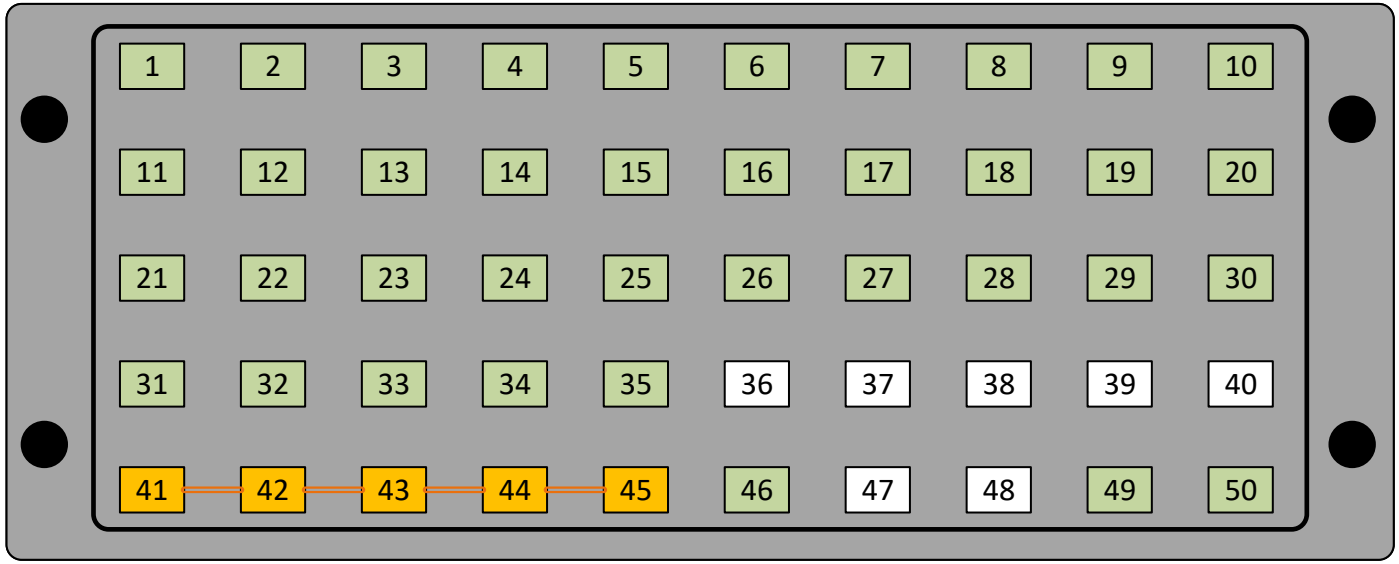
Cabling at the data cabinet location in garage





Gigaclear FTTH – installed 28/03/2024

Patch Panel	Cable#	Location
1	16	Landing
2	26	Kitchen
3	27	Kitchen
4	9	Breakfast bar
5	10	Breakfast bar
6	14	Lounge (back right)
7	15	Lounge (back right)
8	23	Lounge (front right)
9	24	Lounge (front right)
10	17	Lounge (left)
11	18	Lounge (left)
12	19	Lounge (left)
13	20	Lounge (left)
14	21	Office/Study
15	22	Office/Study
16	1	Bedroom (left)
17	2	Bedroom (left)
18	3	Bedroom (left)
19	4	Bedroom (left)
20	5	Bedroom (right inside)
21	6	Bedroom (right inside)
22	7	Bedroom (right outside)
23	8	Bedroom (right outside)
24	25	Under stair cupboard
25	28	Garage outside wall
26	29	Garage outside wall
27-28-29-30		Garage inside wall
31-32-33-34		Garage inside wall
35	11	Roof
46	12	Roof
49	F	Bedroom Satellite Plate
50	37	Lounge Satellite Plate



Telephone and Broadband

The incoming telephone cable terminates at a BT master socket in the roof just above the loft access hatch.

The patch panel outlets 41-42-43-44-45 are wired together in parallel.

Outlets 41,42,43 and 44 can be cross patched to any room data outlet for the connection of up to four telephones. You will need a suitable RJ45 to 431A/ 631A socket adapter to connect a standard telephone plug

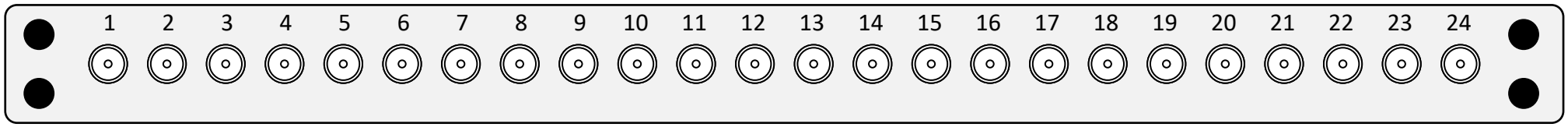
To 28/03/2024 – Sky broadband – telephone # 01572 345535
From 28/03/2024 – Gigaclear FTTH (no phone service)

Key

26	data
45	linked
47	n/c

Coax cable termination patch panel

CT100 RF cabling



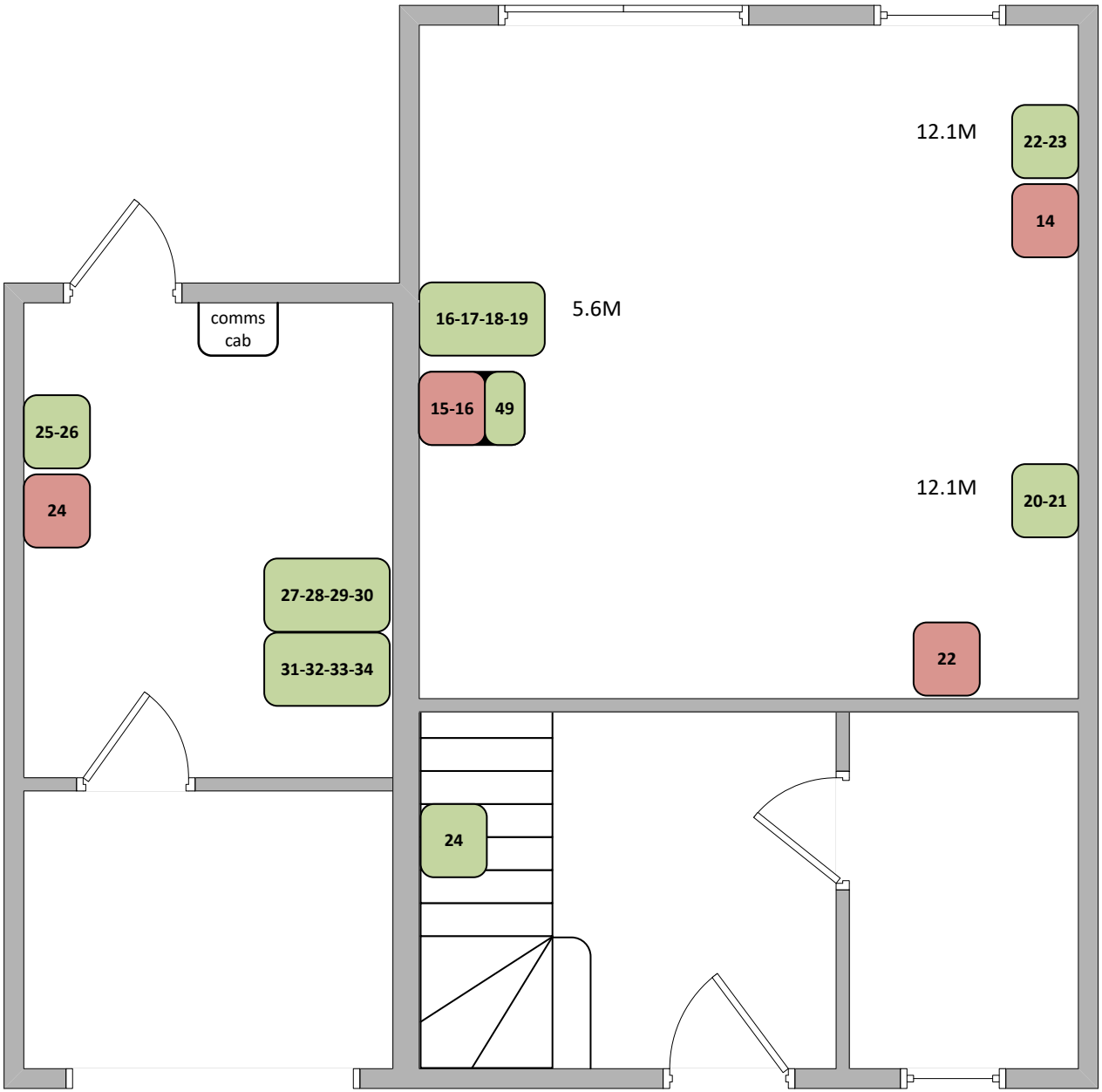
Patch panel	Cable#	Location
1	1	Satellite feed (roof outside) n/c
2	2	Satellite feed (roof outside) n/c
3	3	Aerial down lead FM Radio (roof)
4	4	Aerial down lead TV (roof)
5	5	Spare (roof) n/c
6	6	Spare (roof) n/c
7	7	Breakfast bar, back of cupboard (n/c)
8	8	Breakfast bar, in back of cupboard (TV/FM)
9	9	Lounge (left wall satellite)
10	10	Lounge (left wall satellite)
11	11	Lounge (left wall TV/FM)
12	12	Lounge (left wall TV/FM)

Patch panel	Cable #	Location
13	none	
14	14	Bedroom, far corner (TV/FM)
15	15	Bedroom (garage wall)
16	16	Bedroom (garage wall)
17	none	
18	none	
19	none	
20	42	Study/office (TV/FM)
21	43	Lounge, right, far corner (TV/FM)
22	55	Bedroom, bathroom wall (TV/FM)
23	77	from Alarm Bell Box n/c
24	99	Garage, outside wall (TV/FM)

- *Where a wall face plates uses a TV/FM splitter only one cable is connected from the patch panel. The other cable is unconnected in the back box.*
- *Indicates two cables feeding into one back box*
- *n/c indicates cable is not connected at the far end (so don't patch it)*

Data and Coax Outlet Locations

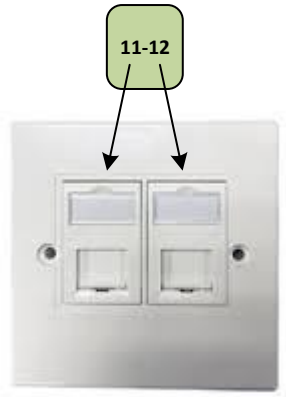
Ground Floor



Key

11-12 — Data
patch panel number(s)

(7) 8 — RF Coax
Patch panel number
(7) not connected
8 connected



When viewed from the front the outlet numbers on the plan are the same order as the outlets on the faceplate.

Do Not Scale

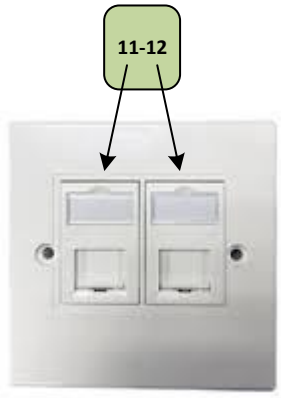
Data and Coax Outlet Locations

1st Floor

Key

11-12 Data
patch panel number

(7) 8 RF Coax
Patch panel number
(7) not connected
8 connected

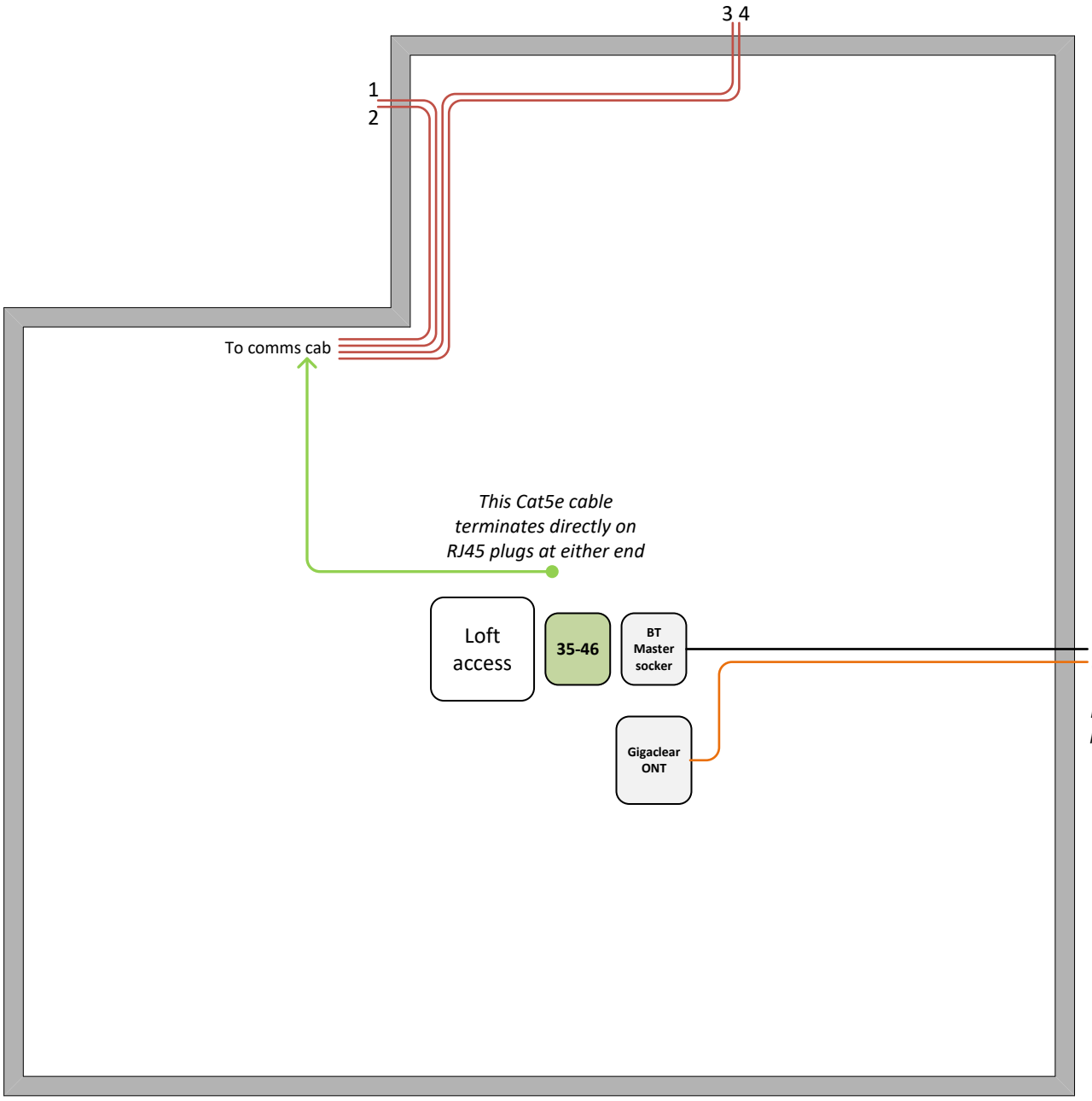


When viewed from the front the outlet numbers on the plan are the same order as the outlets on the faceplate.

Do Not Scale

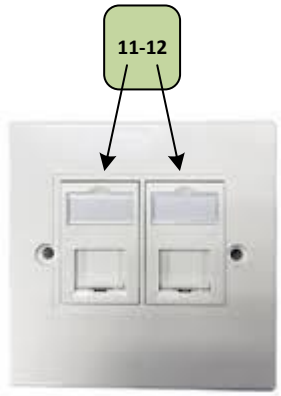
Data and Coax Outlet Locations

Loft space



Key

11-12	Data *patch panel number*
(7) 8	RF Coax *Patch panel number* *(7) not connected* *8 connected*



When viewed the from front the outlet numbers on the plan are the same order as the outlets on the faceplate.

Do Not Scale

Alarm Panel	Bell		
D	A	Red	12 volt
B	B	White	-ve activate bell
T	C	Yellow	-ve removed on tamper
A	D	Black	0 volt
-strobe	S	Blue	-ve activate strobe

Alarm

1 Garage door (back)
2 Garage door (front)
3 PIR bedroom
4 Keypad
5 Front door
6 PIR landing
7 Bell box (not marked)

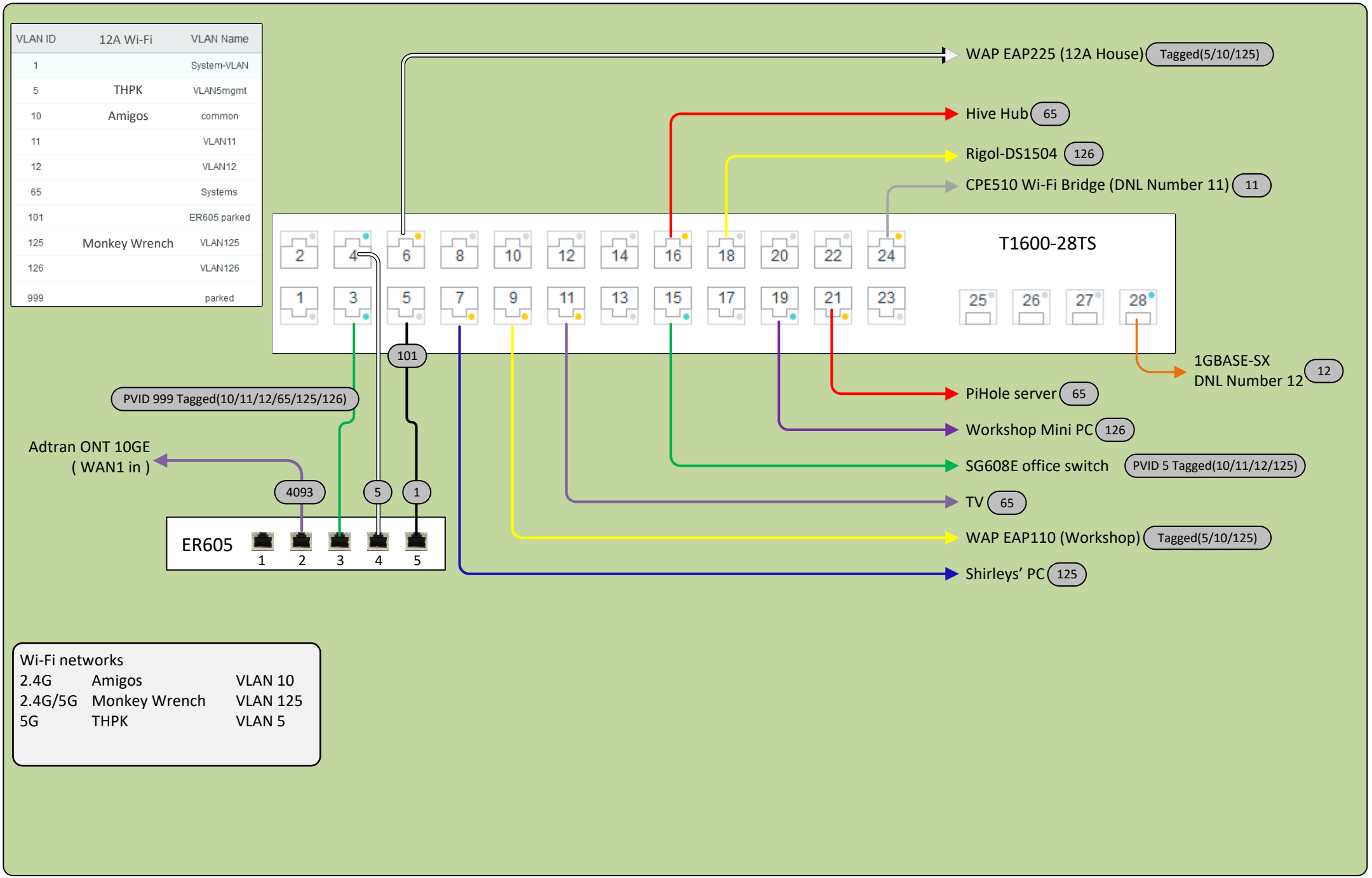
Keypad

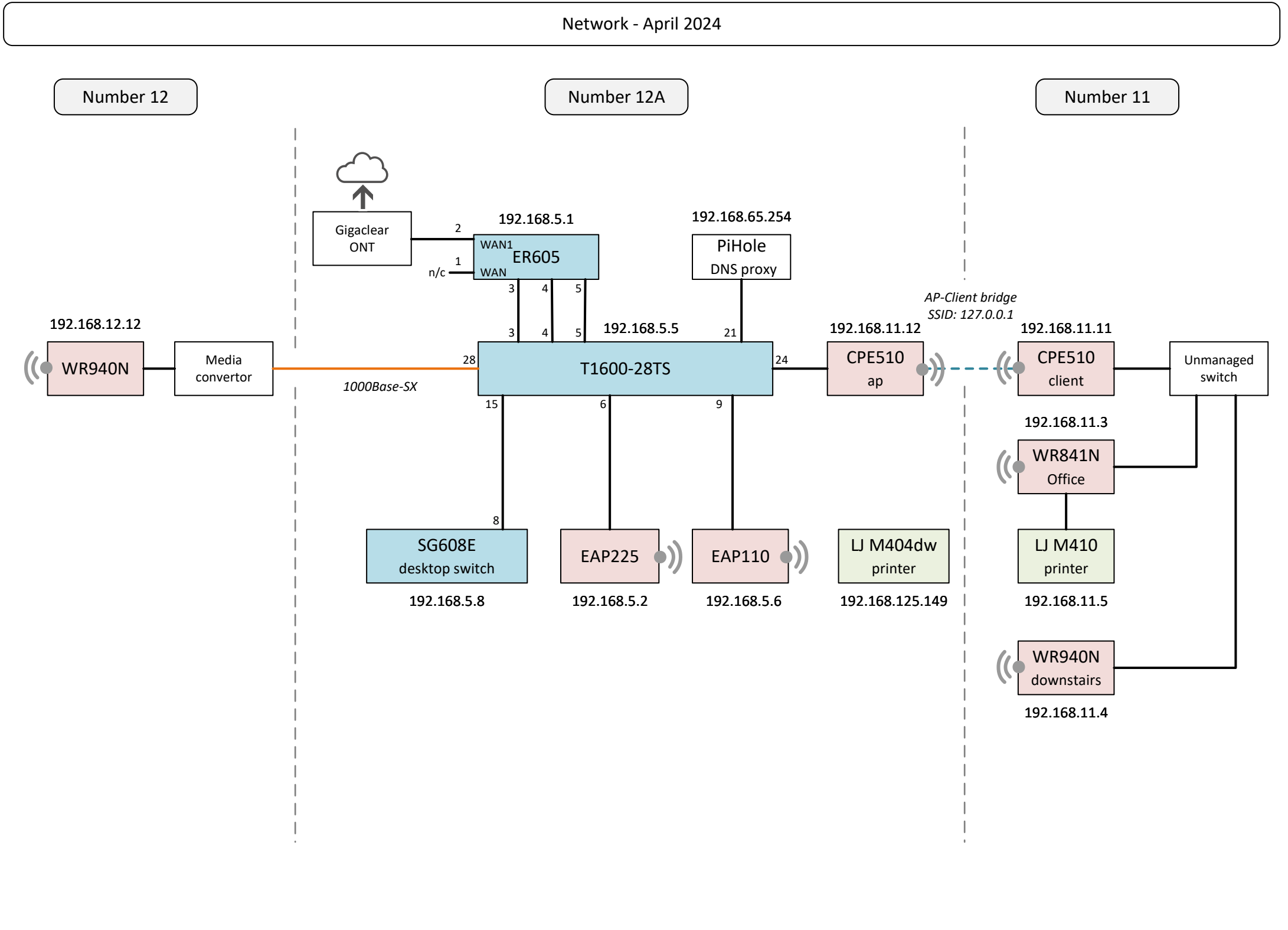
Black	0 volts
Red	12 volts
White	Comms
Blue	Sound
Yellow	Tamper
Green	Tamper

PIR

Black	0 volts
Red	12 volts
White	Alarm
Blue	Alarm
Yellow	Tamper
Green	Tamper

LAN Connectivity - April 2024




Network - April 2024
Number 12
Number 12A
Number 11
Gigaclear ONT
2
1
n/c
WAN1
WAN
ER605
192.168.5.1
192.168.65.254
PiHole
DNS proxy
3
4
5
3
4
5
192.168.5.5
21
AP-Client bridge
SSID: 127.0.0.1
192.168.12.12
WR940N
Media convertor
28
1000Base-SX
T1600-28TS
24
192.168.11.12
CPE510
ap
192.168.11.11
CPE510
client
Unmanaged switch
15
6
9
192.168.11.3
WR841N
Office
8
SG608E
desktop switch
EAP225
EAP110
LJ M404dw
printer
LJ M410
printer
192.168.5.8
192.168.5.2
192.168.5.6
192.168.125.149
192.168.11.5
WR940N
downstairs
192.168.11.4

Background Notes

April 2024 – Telephone history

The original BT phone number was 01572 821751 but on BT records it was registered to Number 12 because when the house was built 12A didn't exist on their records, so using Number 12 was the only way I could get them to install a phone line. I tried a few times but could never get them to update the address, even though they billed it to 12A.

When the broadband and phone was moved to Now, they wouldn't move the number because the address is 12A, so ended up with a new number 01572 345535. I didn't care because I hadn't used the landline phone for years.

As of the installation of Gigaclear FTTH installed in April 2024, I did not take up their phone service.

Why all the copper cabling?

When the house was built in 2004, Internet was ADSL copper broadband and not that fast, like < 10Mbs. Wi-Fi standards were 802.11a/g for 54Mbs and actually most equipment in 2004 was still 802.11b. Streaming media over the Internet was not a thing and not even on the horizon. IP cameras, IoT and everything common today did not exist. For these reasons the house was built with a lot more UTP network cabling and CT100 coax than I would use today.