

2018 Freeview Changes

Retuning instructions

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Essential changes are being made to Freeview signals across the UK to create capacity for improved mobile broadband services in the future.

When the changes take place, some channels will move to new frequencies and you may need to retune your TV equipment to get them back.

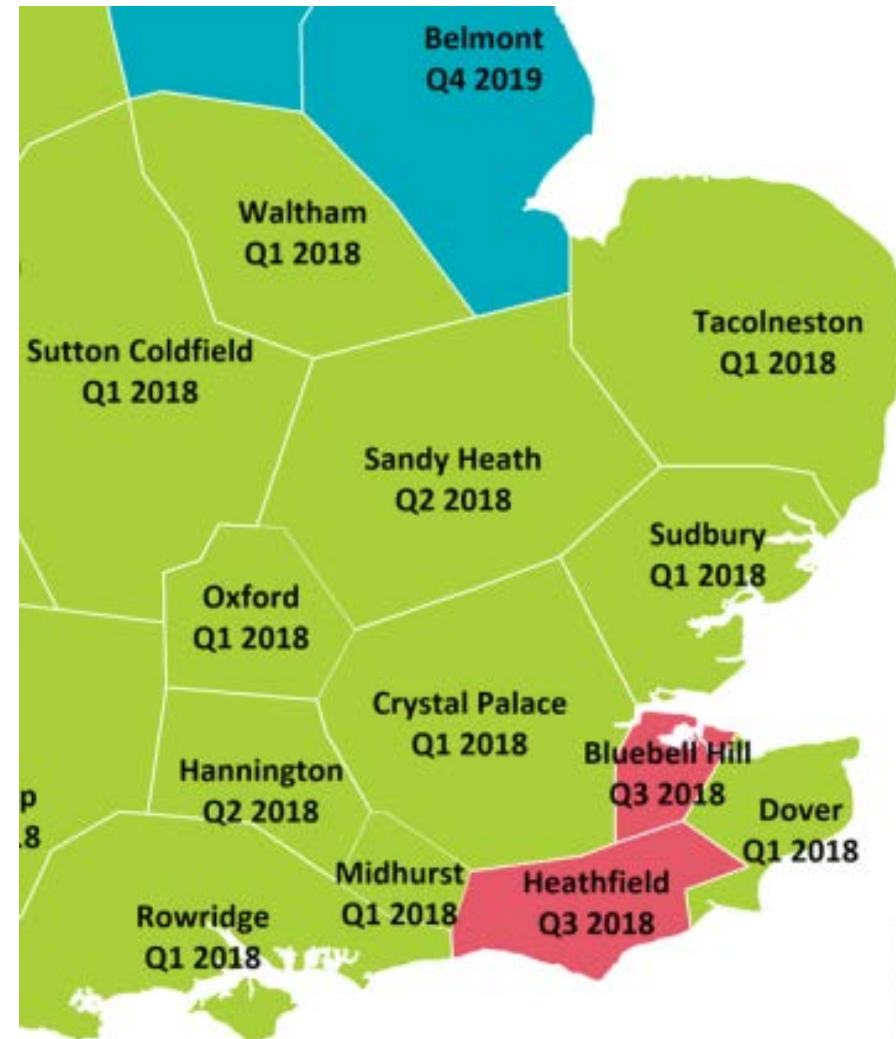
Press Up/Down to change page. Press Yellow to exit.

Note the Wording!

- **Frequencies for Phones**
- **Not TV Viewers!**

2018 Freeview Changes

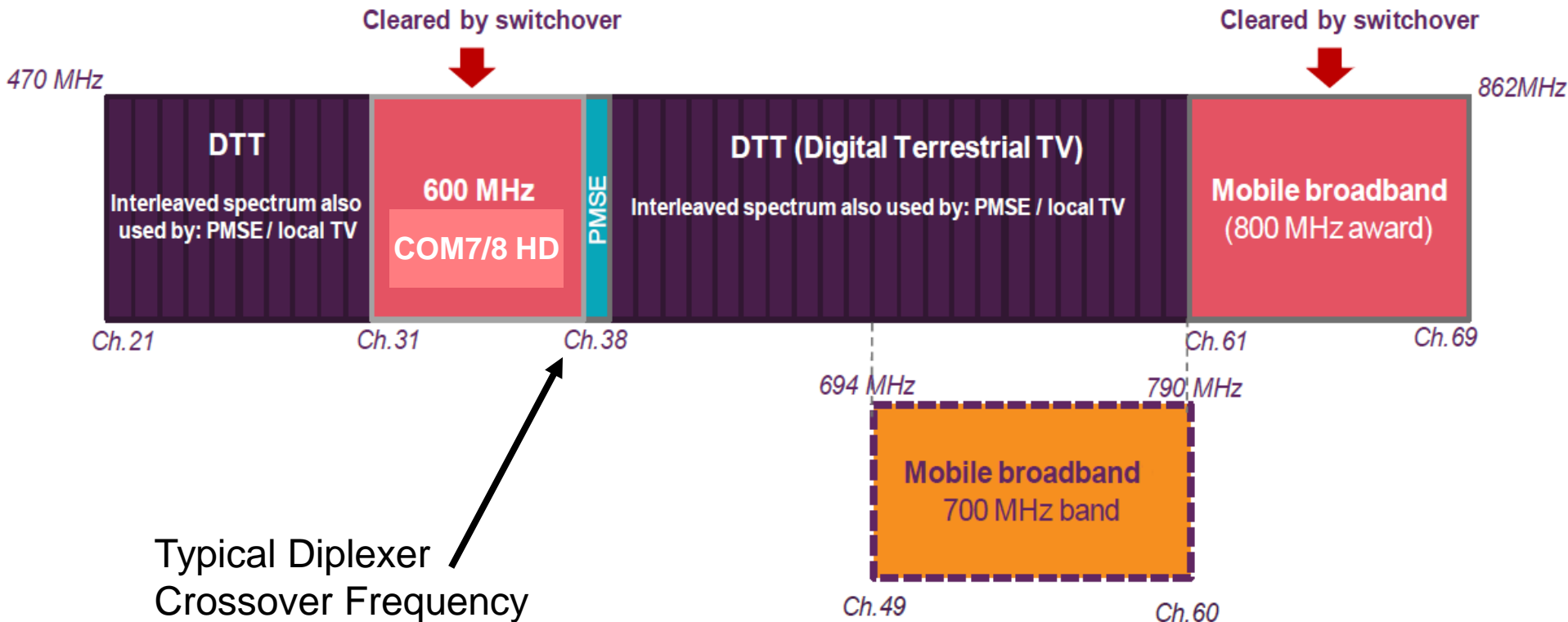
- 700 MHz Clearance will see major changes to Sudbury and Crystal Palace HD
- Retune Dates:
 - Sudbury:
Wednesday 7th February
 - Crystal Palace:
Wednesday 21st March
- Chelmsford is located midway, so complicated!



Transmitter Change Schedule

Background: The TV Band

- Original Switchover cleared 800 MHz (790-862 MHz, Ch 61-69)
- New changes remove even more at 700 MHz (694-790 MHz, Ch 49-60)
- Also evicts extra HD on Mux7/8 from 600 MHz



Typical Diplexer
Crossover Frequency
for combined aerials

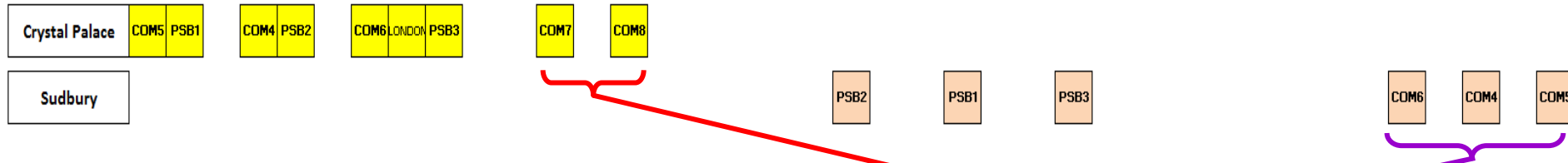
Retunes: Big Frequency Shifts

London/Sudbury 700MHz Clearance Retunes

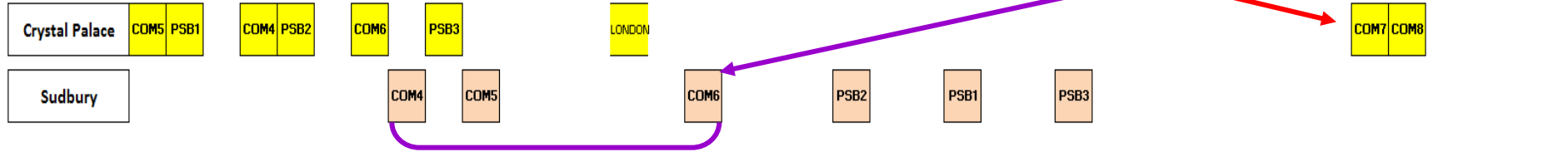
UHF Channel

22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
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Current Allocations - London in Group-A inc extra HD, Sudbury freqs all above, easy antennas and diplex-combiners



Feb/March-2018 Allocations - Impossible to Diplex, possible loss of HD/COM channels



700 MHz Clearance for 2020 5G Phones

- Notes:-
 PSB1 = BBC
 PSB2 = ITV/CH4/CH5
 PSB3 = BBC1/2/ITV/CH4/CH5 HD
 COM7/8 = BBC4/News HD
 Aerial groups: A=21-37, K=21-48 (need to avoid some wider band aerial groups after 2020)

Feb: Sudbury commercial move down
March: Crystal Palace HD move up
 BBC1/ITV1 unaffected

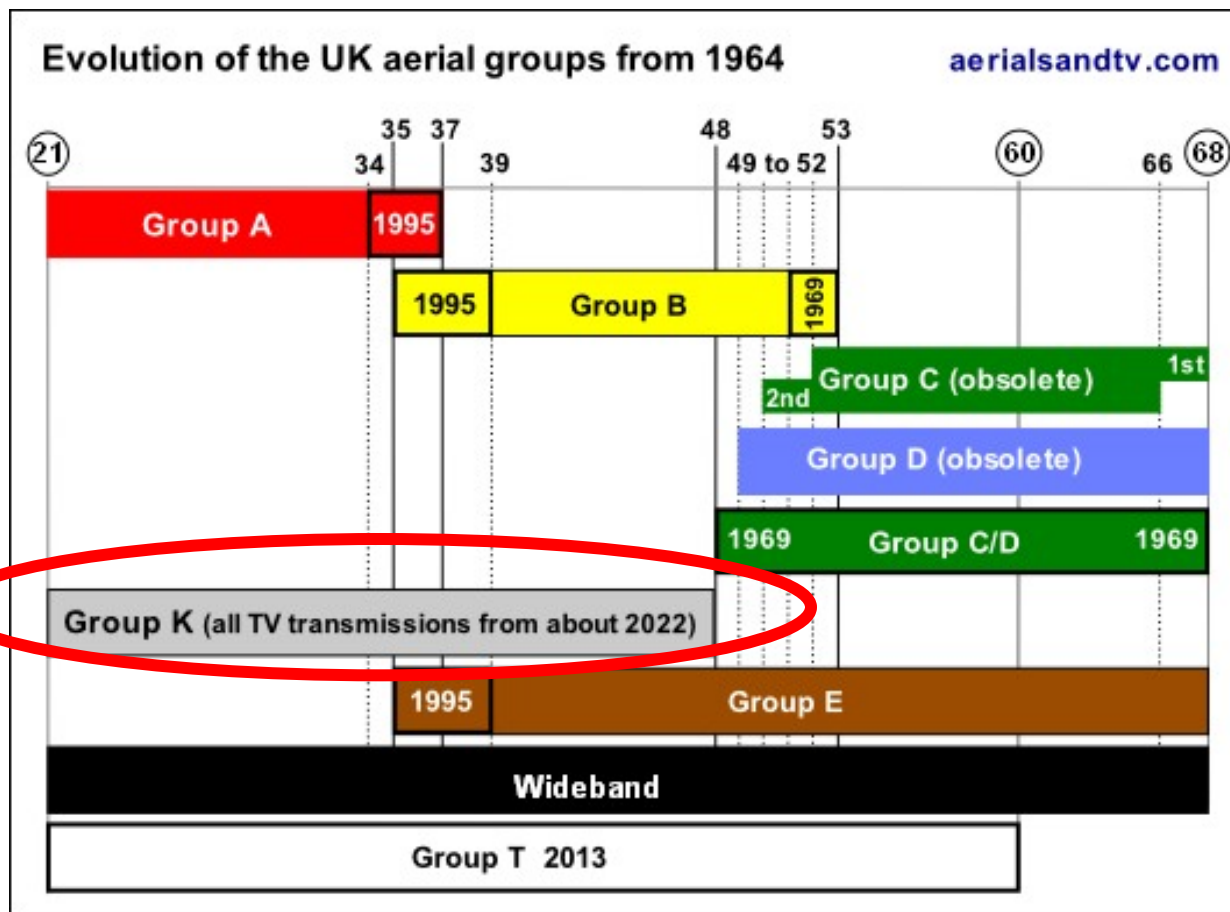
NB in 2020 or 2022 the COM7/8 channels will close and will require HD modes on remaining frequencies - which is only compatible with FreeviewHD sets

Note: COM7/8 loses capacity and moves to the same frequencies in all UK regions – like DAB

6-Feb-2018

TV Aerial Groups

- UHF TV Aerials are banded into Groups
- DSO suggested Group-W wideband
- Now Group-W is a BAD IDEA!!
- W-aerials receive 800 MHz Phone interference so were replaced with Group-T, but these this will need to change again
- So look for new **Group-K Aerials**
- More gain than W, lower interference



Further Changes:

- Low Power Essex/Suffolk relays also change inc Hockley
- **2020-2022:** COM7/8 transmitter licences will eventually expire when 700 MHz becomes 4/5G phones
- Loss of Capacity in 2020/2 will then require most remaining frequencies to become DVB-T2 (Freeview-HD) modulation
- Earlier Freeview (non-HD) will then loose reception of these
- NB: Any 800MHz LTE interference filters will also become useless and new 700/800 models will be needed
- **Conclusions... Take Care!**