

Forensic Analytics Communications Data Experts

UK 4G Spectrum Refarming

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Spectrum Refarming



In common with networks around the world, UK CSPs have been engaged in a process of refarming 2G and 3G spectrum to be used by 4G.

In most cases, the objective seems to be to reduce the available 2G spectrum to an operational minimum; enough to provide a 2G coverage safety net, while at the same time paving the way for 3G to eventually be retired completely. There is also a degree of preparation for 5G going on.

This technical briefing describes the frequency allocations in the most affected bands only – 900MHz (Band 8), 1800MHz (Band 3) and 2100MHz (Band 1).

The majority of information contained in this document has been gained via direct RF survey observation, some of the optional channels have been calculated rather than observed, so the actual EARFCNs may differ slightly. Some information provided by Peter Clarke at www.pedroc.co.uk.



Band 8 – 900MHz

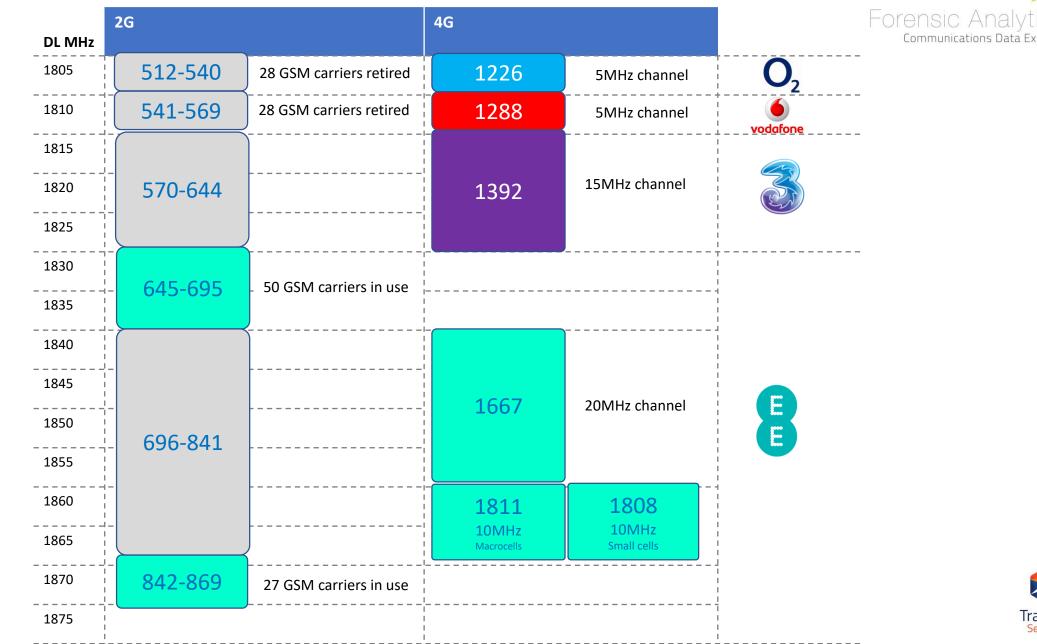
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Training Services

Band 3 – 1800MHz



123

Channel number

Training Services

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Band 1 – 2100MHz

DL MHz	3G		4G				
2110	10564	UMTS Carrier in use					
2115	10588	Optionally retired	00	10MHz channel			
2120	10612	Optionally retired	99				
2125	10637	Optionally retired	100	15MHz channel			Ο
2130	10661	Optionally retired	199				V ₂
2135	10687	Optionally retired			299		
2140	10712	Optionally retired	323 15MHz	347	10MHz		vodafone
2145	10736	Optionally retired		10MHz		372	
2150	10761	UMTS Carrier in use					
2155	10786	Optionally retired					E
2160	10811	UMTS Carrier retired	522 15MHz	547 10MHz			E
2165	10836	UMTS Carrier retired					
2170							





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