



Strategic Command
Defence Digital

SPF Spectrum Policy Summit 7 – 24GHz MoD Usage

01 Dec 2022

IMT 2030 - A New proposal for WRC-27

**IMT 2030 is a proposed agenda item that is looking for spectrum in
7.125 – 24 GHz & 92 – 275 GHz to enable 6G globally**

GSMA, Samsung and Nokia have already identified 5 frequency bands below 24 GHz that they believe could be used.

7 – 8.5 GHz	10.225 - 13.24 GHz	14.3 - 15.35 GHz	17.7 - 19.7 GHz	21.2 - 23.6 GHz
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Ofcom have also asked Defence to provide information on 3 radiolocation bands;

8.5 - 10.6 GHz	13.24 - 14 GHz	15.7 - 17.7 GHz
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So pretty much the whole band!!!!

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Research is underway, looking for sharing options within the identified bands.

- *Plum Consulting* spoke to stakeholders, including MoD, about this proposal
- Their study correctly identifies that 85% of Defence spectrum is shared with public and private sector users
- It also highlights a need to review existing spectrum allocations and ensure effective use of non-military bands
- MoD has reviewed its use of the bands identified by Ofcom and will continue to investigate sharing options over the coming weeks.
- NATO, 5 Eyes and MoD agree that there is a degree of pressure to share spectrum below 15 GHz
- Ofcom have asked for an update before Christmas on possible sharing options

Defence Frequency Bands

7 - 24GHz

Current Band Usage

FREQUENCY BAND GHz	USAGE
7.0 - 8.4	<p>All bands identified by Ofcom are actively used by MoD and its allies across the UK - approximately 1150 assignments. Their use includes (but is not limited to):</p> <ul style="list-style-type: none">• Fixed and Mobile Links• Radar• Satcom• Foreign Force• Military Training• Home Office, Police and other public services
8.4 - 10.6	
10.7 -13.24	
13.24 - 14.0	
14.5 - 15.35	
15.7 - 17.7	
17.7 - 19.7	
21.2 - 23.6	

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- The report produced by *Plum Consulting* identified an increasing need for alternative modes of Spectrum sharing for example “Polite Sharing”
- The report also suggests the MNO’s have enough spectrum for the time being
- Increasing sharing of MoD spectrum incurs addition costs to re-tuning current capabilities or procure new equipment to work in alternative frequency bands
- Simply put Defence is running out of spectrum it can use for “Train as we fight” scenarios which is a threat to national security
- Alternative modes of sharing, such as Adaptive Spectrum Access (ASA), could produce economic opportunities for increased access to public sector frequency bands but we are not there yet



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Any Questions?