



The Broadcasters' Perspective on WRC-15



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What is the BBC?



BBC Mission – inform, educate and entertain

Six public purposes in Royal Charter and Agreement

Funded by a universal licence fee (£145.50 per household)

National and international multi-platform broadcaster – radio, TV, online



Headline sales
2014/15
£1,001.8m



Weekly UK
audience
2015
97% of UK
population



Weekly global
audience 2015
283million

Why is the BBC active in spectrum issues?

BBC joined ITU in 1948

Broadcasting is changing – no longer only terrestrial

We use satellite spectrum, mobile spectrum

Involvement means you can influence

Working with regulator – offering specialist knowledge and expertise

Working with other broadcasters – sharing perspectives



Agenda Item 1.1

“to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for IMT...”

Bands	APT	ASMG	ATU	CEPT	CITEL	RCC
470 - 694/698 MHz	Opposition	Opposition	Opposition	Opposition	No common position	Opposition
1350 - 1400 MHz	Opposition	Opposition	Support	Opposition	Opposition	Opposition
1427 - 1452 MHz	Support	Opposition	Opposition	Support	Support	Opposition
1452 - 1492 MHz	No common position	Opposition	Opposition	Support	Support	Opposition
1492 - 1518 MHz	Support	Opposition	Support	Support	Support	Opposition
1518 - 1525 MHz	Opposition	Opposition	No common position	Opposition	No common position	Opposition
1695 - 1710 MHz	Opposition	Opposition	Opposition	Opposition	No common position	Opposition
2700 - 2900 MHz	Opposition	Opposition	No common position	Opposition	Opposition	Opposition
3300 - 3400 MHz	No common position	Opposition	No common position	Opposition	No common position	Opposition
3400 - 3600 MHz	Opposition	Support	Opposition	Support	Support	Opposition
3600 - 3700 MHz	Opposition	Opposition	Opposition	Support	Opposition	Opposition
3700 - 3800 MHz	Opposition	Opposition	Opposition	Support	Opposition	Opposition
3800 - 4200 MHz	Opposition	Opposition	Opposition	Opposition	Opposition	Opposition
4400 - 4500 MHz	No common position	Opposition	Opposition	Opposition	No common position	Support
4500 - 4800 MHz	Opposition	Opposition	Opposition	Opposition	Opposition	Opposition
4800 - 4990 MHz	No common position	Opposition	No common position	Opposition	No common position	Support
5350 - 5470 MHz	Opposition	Opposition	Opposition	Opposition	Opposition	Opposition
5725 - 5850 MHz	Opposition	Opposition	Opposition	Opposition	No common position	Opposition
5925 - 6425 MHz	Opposition	Opposition	Opposition	Opposition	Opposition	Support

	GSMA priority
	Support
	No common position
	Opposition

Agenda Item 1.1 – 470-694 MHz

WRC-07 and WRC-12 have already reallocated about half of the spectrum used for the GE06 digital broadcasting plan. Many admins have completed replanning without those bands. Many admins are starting to implement digital broadcasting below 700 MHz

Report ITU-R BT.2302 showed the results of a questionnaire to Region 1 admins on how much spectrum they required for broadcasting:

TABLE 8

Required amount of spectrum in the band 470-862 MHz for DTT in the future

	< 224 MHz	= 224 MHz	> 224 MHz and < 320 MHz	= 320 MHz	> 320 MHz	To be determined
Total administrations considered ⁷	4	40	8	17	3	17

Agenda Item 1.1 – C band

3.4 – 4.2 GHz used for programme contribution and international distribution

Interference leads to degradation or loss of service

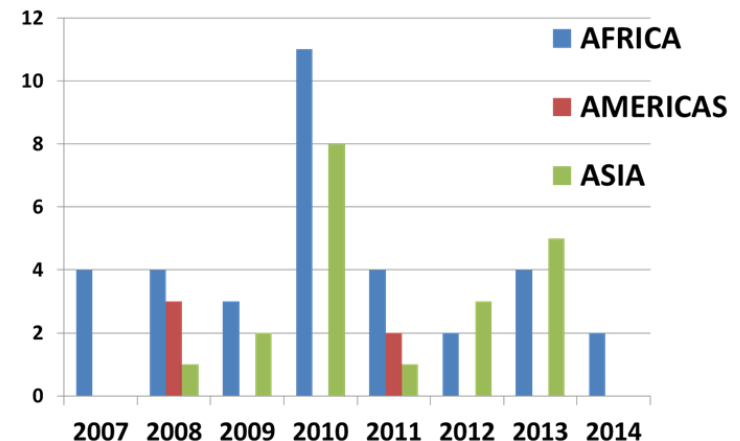
World Service, World News rely heavily on C-band outside Europe for programme distribution – no alternative option

Vulnerability of receive-only downlinks

Most local administrations do not require registration



BBC FMs affected by interference



Agenda Item 1.2

Issue A – Lower Band Edge

- CPM found that 694 MHz was the only feasible lower edge for the mobile allocation

Issue B – Protection of Other Services

- A vexed question! We believe that studies show that good OOBE performance is needed to protect broadcasting, and that this should be referenced in the RR.

Issue C - ARNS

- We'll pass on this one!

Issue D – SAB/SAP

- Allocation of 700 MHz band to mobile restricts availability of spectrum for programme-making. We continue to work with admins to find new suitable spectrum.

Agenda Item 10

“...to recommend ... items for inclusion in the Agenda of the next WRC...”

Lots of proposals from the Regional groupings, in particular:

- IMT above 6 GHz:
 - Do we want another JTG?
 - Should we restrict candidate bands now, or after studies?
 - How do we consider protection of incumbent services?
- Wireless power transfer in LF and MF bands
 - Why such wide bandwidths?
 - How do we consider protection of incumbent services?

Other Items of Interest

AI 1.5

- Frequencies for Unmanned Aircraft Systems

AI 1.14

- Feasibility of a continuous reference time-scale

AI 4

- To review resolutions and recommendations of previous conferences

AI 8

- To delete countries from footnotes

**“Audiences are
at the heart of
everything we
do”**



**Thanks for your attention
– see you in Geneva!**

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