

CEPT Workshop on Spectrum for Drones / UAS

CEPT Administrations, Market Surveillance and EC – UK View

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Ofcom - what do we do? **“Our main legal duties are”**

- Ensuring effective use of the **radio spectrum**
- Ensuring a **wide range of electronic communications services** is available throughout UK (promoting competition)
- Safeguarding the UK’s universal service obligation on postal services
- Ensuring a wide range of **television and radio programmes of high quality and wide appeal**, with services are provided by a range of different organisations
- Maintaining **plurality of broadcasting services**
- Applying adequate **protection for audiences against**
 - **offensive or harmful material**
 - **unfairness or infringement of privacy**

Ofcom – what we do not do...

Day to day regulation is contracted out to co-regulatory bodies for :

- the content of adverts on television (linear and on-demand) and radio (Advertising Standards Authority)
- premium-rate services, including mobile-phone text services and ringtones (PhonePayPlus)

We do not regulate:

- disputes between individual consumers and telecoms providers;
- the BBC TV licence fee; or
- newspapers and magazines, and

- **Operational requirements for aircraft, in UK controlled airspace**

Spectrum Questions in UK

Today's drones spectrum requirements seems satisfied:

- Requests for higher powers, not necessarily dedicated spectrum
- Not solely reliant on radio control
- Mobile network use provides both payload and non-payload spectrum options

UK user base - estimates:

- Just under 4100 registered commercial users in the UK
- Leisure users much higher, but not recorded
- USA: leisure and commercial users register
- 7:1 ratio

Market Surveillance Experiences in UK

Vast majority of equipment is on a licence exempt based:

- Power levels in 2.4/5.8 GHz, higher levels requested
- Some in the FCC licence exempt: Part 15 rules (902 – 928 MHz)
- Enforcement action, on imported equipment

Spectrum snap shot:

- Market presently seems mostly satisfied by LE options
- Non operational licences have been issued
- No current requests to use the 5030 - 5091 MHz band

Technical Work and Regulatory Discussions

3GPP, ETSI, CEPT:

- ECC Report 268 published in February
- US trails on use of mobile networks (3GPP TR 36.777 V1.0.0 (2017-12))
- DTR/ERM-TGAERO-32 TR 103 373 – work restarted in February

Technical considerations:

- Airborne use presents challenges
- Spectrum is a part of a control ecosystem
- Consideration of existing communication networks must be factored in
- Aviation operational requirements to be assessed by those experts

We have landed