



PMSE Workshop with Aeronautical Users

Andy Wells
8 June 2017

Agenda

- Welcome and introductions
- CAA aeronautical spectrum management and our contribution to wider Government spectrum initiatives
- Background on spectrum sharing in the 960-1164MHz band and latest developments
- Update on PMSE Baseline Safety Case
- Panel discussion / Q&A

Objectives

- Provide context on spectrum sharing
- Background on PMSE and spectrum requirements
- Discuss work undertaken to date on spectrum sharing arrangements and safety case
- Seek your input and feedback!



CAA and Contribution to Government spectrum initiatives

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CAA Spectrum and Frequency Management

- To ensure provision of suitably protected spectrum to ensure safe and efficient use of the airspace
- Promote spectrum efficiency
- Manage spectrum to accommodate developing technologies which improve safety and capacity
- Ensure consistency with international obligations and standards to support safety and interoperability.
- Ensure efficient management and coordinated assignment of frequencies at national and regional level
- Policy on UK frequency assignment for aeronautical systems

Minister of State for Digital and Culture



- Consumer and business demand for wireless, as well as terrestrial, digital services is increasing with new demands for spectrum to enable:
 - faster, more reliable mobile data in urban and rural areas
 - better internet access on road and rail, safe driverless vehicles
 - the interconnectivity of machines
 - new generations of defence and public safety equipment.

DCMS View on Spectrum

- Spectrum will need to be available ... to ensure that the UK remains in the vanguard in Europe for the development of services and technology.
- Spectrum is a finite resource and there is no excuse for the either public sector or the private sector to use spectrum inefficiently.
- The public sector needs spectrum to provide vital public services and the protection and security of our citizens.
- We have to be smarter and innovative in how we deliver public services to enable more spectrum to be made available for commercial use.

Spectrum Release - Background

- Government aspiration to release or share 750 MHz of Public Sector Spectrum below 10GHz to boost UK economy.
- Target date is 2022, with 500 MHz by 2020
- Programme overseen by HM Treasury
- Aviation, under Dept for Transport policy, seen as a public sector spectrum user.

Spectrum Sharing

- CAA position: Where evidence illustrates the potential of spectrum sharing with an acceptably low level of risk of interference to incumbent systems, the CAA is open to the prospect of radio spectrum sharing in a specific band.
- As the UK civil aviation regulator the CAA oversees aviation safety through performance-based regulation, based on an assessment of risk, to make sure regulation is targeted.