



EUROPEAN MICROWAVE WEEK 2015

SIX DAYS • THREE CONFERENCES • ONE EXHIBITION

PALAIS DES CONGRÈS, PARIS, FRANCE
SEPTEMBER 6 - 11, 2015

Exhibition Opening Hours:

- Tuesday 8th September: 9.30 – 18.00
- Wednesday 9th September: 9.30 – 17.30
- Thursday 10th September: 9.30 – 16.30

EC policy framework on PMSE requirements

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Disclaimer: the views expressed are those of the author and cannot be regarded as stating an official position of the European Commission

WM08 - PMSE Workshop at EuMW2015



Challenges

- Ensure that Europe's economy, industry and employment can prosper and grow
- A search for sustainable solutions for future audio and video PMSE requirements
- Take into account an increasing demand for spectrum needs by many stakeholders providing a wide scale of wireless services
- Foster efficient use of spectrum which require co-existence in spectrum use



EU policy objectives (1)

- *Supporting sustainable growth in the internal market, noting that internet and digital technologies are transforming our world*

Digital Single Market

- *Ensuring that radio spectrum contributes to the goals of the Digital Single Market*

"...to ensure the coordinated allocation of spectrum needed to meet the target of 100% coverage of 30 Mbps by 2020"



EU policy objectives (2)

- *Maximising the socio-economic and environmental benefits that can be granted through the use of radio spectrum*

Radio Spectrum Policy Programme (RSPP)

Decision 243/2012/EU

"..strategic planning and harmonisation of the use of spectrum to ensure the functioning of the internal market in the Union.."



EU policy objectives on PMSE

In the RSPP objectives on PMSE are recorded:

- **Article 6.6.:** "...examine ways and,...,take technical and regulatory measures, to ensure that the freeing of the 800 MHz band does not adversely affect PMSE users"
- **Article 8.5.:** "seek to ensure the necessary frequency bands for PMSE,..., to improve the integration of the internal market and access to culture."



Commission Implementing Decision on wireless audio PMSE

On 1 September 2014 the European Commission adopted an Implementing Decision(2014/641/EU) on wireless audio PMSE, which contains the following elements

- designate and make available the 823-832 MHz and 1785-1805 MHz bands for wireless audio PMSE equipment
- an additional amount of at least 30 MHz can be used for wireless audio PMSE equipment, subject to user demand



Main considerations

- EU policy measure on PMSE does not aim to meet all spectrum requirements of PMSE users, but rather to create a **baseline** (i) for economies of scale and the functioning of the internal market, and (ii) for "average" social and cultural needs;
- Individual Member States will remain fully responsible to make available frequencies for large spectrum needs like broadcasting sites and extraordinary (yearly) events (e.g. European Song Contest).



Wireless audio PMSE use in the 700 MHz and sub-700 MHz band

- On the 700 MHz band considering optional use of the duplex gap for PMSE
- On the sub-700 MHz a co-alignment with DTT use, focusing on the 'TV white spaces'



Cordless video PMSE

- The European Commission has mandated CEPT to undertake studies on harmonised technical conditions for the unpaired 2 GHz (1900-1920 MHz and 2010-2025 MHz).
- In response CEPT Report 52 included the option to leave the whole 2010-2025 MHz free for PMSE.
- A mandate to CEPT to study and identify harmonised compatibility and sharing conditions for Video PMSE in the 2.7-2.9 GHz frequency band, in coexistence with the radar use in that band.



Sustainable solutions for PMSE spectrum use

- Wireless audio PMSE using higher frequencies below 2 GHz as an alternative (**Lamy report**).
- Develop geo-location databases to facilitate a better use of shared spectrum.
- Use of small cells at high frequencies (e.g. 2.6 GHz) for redirection of broadband use, thus ensuring interference-free environment for spectrum usage for wireless audio PMSE at cultural premises.
- Use of digital PMSE equipment.