



Association of
Professional Wireless
Production Technologies

Prolight + Sound 2016

Handout „Microphone Frequencies“

Matthias Fehr
President

Wolfgang Bilz
Vice President

Frankfurt / Main (D), April 06, 2016

Hand-out „Microphone frequencies“



Information update on frequencies for wireless microphones in

Austria, Australia, Denmark, Finland,
France, Germany, Greece, Italy,
The Netherlands, New Zealand, Norway,
Portugal, Romania,
Spain, South Korea, Sweden,
Switzerland, USA and United Kingdom

We very appreciate, a number of national administrations provided information – thanks!

Download link: <http://www.apwpt.org/downloads/handoutfrequencies2016.pdf>



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**Prolight + Sound 2016
What's going on in the
Radio Spectrum Domain?**

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President

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The APWPT



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- Since 2008 the APWPT promotes on an international level the efficient and demand-driven provision and use of production frequencies for professional event productions as well as safeguarding such production frequencies for the users on the long run.

European „Digital Dividend II“



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- In 2015, Germany was the first European country that auctioned the 700 MHz radio spectrum. PMSE can continue operation in 733 to 758 MHz. However, PPDR is implemented in this band too.
- Next time France and Sweden will auction too.
- A number of European countries note similar consideration from 2020.

- 700 MHz is almost lost for PMSE –

- Now under discussion: the future of 470 to 694
- This is a dangerous situation for all PMSE user**

International organizations and their studies



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- **ECC / CEPT** and **ETSI** are European organizations.
- The **ITU-R** operates on a global level. Some ITU-R studies and Resolutions have recently focused on wireless production tools.

These organizations have studied the use of wireless production tools in the past years and/or suggesting additional studies.

International studies (1)



- All CEPT countries agreed on Report 204. This Report shows a detailed scenario of current wireless production tools and their radio spectrum requirements.
- APWPT Member initiated this study and have supported the study team more than 2 years with contributions.
- The important key message of this study:

“It should be noted that.. the creative industries are among the fastest growing economic sectors in the EU; they created new jobs, assumed key positions in the global value chain and promoted innovations. In a survey among EU Member States, which was conducted at the beginning of 2010, over 97 per cent of those asked considered the culture and creative industries to be 'important' or 'very important' for innovation, economic growth and job creation.”

International studies (2)



- All CEPT countries agreed in 2015 on Report 245. This Report shows alternative radio spectrum for audio PMSE in the band 1350-1400 MHz.
- APWPT Member initiated this study and have supported the study team several years with contributions.
- The important key message of this study:

“Depending on the national situation, administrations will decide which portion of the tuning range within the 50 MHz could be then made available for wireless microphones.”

*Now the national implementation in about 48 countries is required.
This will take some time and requires many resources.
Before we do not have planning security for PMSE manufacturer and user.*

What are the studies' results? (1)



- The frequency used by wireless production tools are now sufficiently studied and described substantially.
Users of wireless production tools can rely on the study results.
- Radio spectrum administrations and politics are now in the situation to make substantive decisions – we are requesting that.
- In more than 8 years hard work the APWPT members have become international accepted experts.

What are the studies' results? (2)



- General conditions have now been established for rational and binding decisions with long term planning reliability.
- Our conclusion:
Since its foundation the APWPT has achieved a lot for its members. PMSE has become a respected party and the importance of the service has been recognized.
The identified spectrum requirements is generally regarded as too high. However, until now no one has shown evidence that less radio spectrum is sufficient for PMSE.
- Get further information:
[Four steps to understanding PMSE frequency requirements](#)

New world-wide studies will begin



- Before WRC-15 the Radio Assembly of ITU-R agreed an updated Resolution 59. This resolution invites all ITU-R member for studies on availability of frequency bands and/or tuning ranges for worldwide and/or regional harmonization and (operational) conditions for wireless production tools.
- Again APWPT and its member have to provide much resources for effective study output that can be implemented.

For this task we do need your sustained support!

What is APWPT's focus?



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- APWPT will continue to fight for the interests of their members from 17 countries.

What is APWPT targeting now?



- Inform decision makers on political and regulatory level on PMSE application and spectrum needs
- Inform PMSE user on the status and trends in the spectrum discussion
- Secure PMSE protection against interferers in international organisations and standardisation groups
- Take care of PMSE user interests at European Commission, national Radio Spectrum Administrations and the ITU-R; including the (national) preparatory process(es)

To stay informed



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www.apwpt.org is the source for news and is updated frequently.

In case of questions or comments, please send those to info@apwpt.org

You are welcome to support actively our work!

For more information, please see:

<http://www.apwpt.org/how-to-join-mitgliedschaft.html>