



EUROPEAN COMMISSION

Directorate-General for Communications Networks, Content and Technology

Electronic Communications Networks and Services

Radio Spectrum Policy Group

RSPG Secretariat

Brussels, 06 June

DG CNECT/B4/RSPG Secretariat

RSPG17-023 FINAL

RADIO SPECTRUM POLICY GROUP

Progress Report of the RSPG Working Group

**on a long-term strategy on spectrum requirements facing the future needs
and use of wireless audio and video PMSE applications**

RSPG work item: update to Plenary	
Work item	A long-term strategy on spectrum requirements facing the future needs and use of wireless audio and video PMSE applications
Rapporteur/s	Franz Ziegelwanger, Austria
Rationale	The Request for an RSPG Opinion from the European Commission reflects the intention expressed by both the RSPG and the RSC that attention should be given to a long-term strategy with regard to future PMSE spectrum requirements in view of possible constraints for wireless audio and video PMSE needs, in particular noting the requirement for high quality of services in case of professional practice.
Scope	The RSPG will examine the expected impacts on PMSE services noting the evolution of existing use and taking into account a growing need for sharing of spectrum use. The Commission requests an assessment of the strategic options in terms of providing spectrum access for wireless audio and video PMSE applications that can provide the required quality of services for PMSE applications. On the basis of this long-term strategic assessment, the RSPG should also provide guidance on the relevance of a common “roadmap” to support the audio and video PMSE sector in obtaining access to spectrum taking into account different national needs. Thereby the work focuses mainly on the so called “peak demand events” and on the needs of professional users (multi-channel environment).
Planned deliverables and timing	Planned type of deliverable RSPG Opinion Time schedule: Interim draft Opinion June 2017 Draft Final Opinion November 2017
Analytical approach	<ul style="list-style-type: none"> • Assess possible solutions and options for meeting the expected future needs and use of audio and video PMSE applications in a time frame after 2020, taking into account the bands currently in use by audio and video PMSE and the expected spectrum re-allocations within relevant bands (e.g. 700 MHz band), while ensuring a sufficient flexibility and acknowledging that the needs vary greatly between different Member States. Which solutions are sustainable in the long term, taking due account of high quality and latency requirements of certain types of PMSE applications? • Indicate technological developments and regulatory requirements related to spectrum use which could contribute to meet the spectrum and quality of service demands for wireless audio and video PMSE. In this context consider shared use of spectrum, which could include appropriate and innovative sharing approaches e.g. the availability of geo-location databases with an appropriate geographic reach, the digitalisation of audio PMSE equipment, opportunities in higher frequency ranges, a higher level of certainty than a framework of non-interference and non-protection accessibility of spectrum in identified cases, as well as a common approach on authorisations and opportunities of localised temporary shared use of spectrum in case of large spectrum needs.

	<ul style="list-style-type: none"> Assess the relevance of a common “roadmap” identifying principles and approaches of spectrum availability for audio and video PMSE. In this context collect Member States’ best practices in providing spectrum use with the required level of quality of service and increasingly flexible conditions of spectrum access for wireless audio and video PMSE applications. <p>In developing this Opinion, the RSPG work should address audio and video PMSE separately and take into account ongoing processes, such as possible new spectrum resources and the outcome of the Licenced Shared Access trials. The timing requested may be reviewed in the light of developments, such as the outcomes of ongoing CEPT work or the success and take-up of LSA solutions.</p>
Project plan	<p>Phase 1 – Information gathering</p> <p>Phase 2 – Analysis and assessment</p> <p>Phase 3 – Review conclusions (including stakeholder engagement)</p> <p>Phase 4 – Conclude and report, opinion</p>
Dependencies	<p>This work is not directly linked to the RSPG work items on other aspects. However dependencies could exist on the availability of spectrum for 5G and its ability to cover also PMSE.</p> <p>There is also strong relation to already ongoing CEPT work which could have an influence on the opinion and a possible roadmap. We discuss all steps in the group to ensure we share information and align the work as appropriate.</p>

Members, stakeholders and resources

Members	<p>Participating in working group meetings (at least partly):</p> <p>Austria, bmvit EC, DG CNECT Finland, Ficora France, ANFR Germany, BnetzA Sweden, PTS The Netherlands, Minez United kingdom, Ofcom Slovakia, Teleoff Portugal, ANACOM Denmark, ENS Italy, Mise Norway, Nkom ERM TG17, ETSI</p>
Key stakeholders	<p>APWPT, Shure, Sennheiser, Audio Technica, AKG, PEARLE, ...</p> <p>Broadcasting- and Media Content Producers</p> <p>Wireless microphone industry</p> <p>Wireless cameras industry</p>
Other resources	

Work flow (internal and external milestones)

Date	Action / deliverable	Internal Work group only	External Plenary, Publication
Year 2016			
20 October (Vienna)	First meeting of work group – discuss scope and plan	Work group	n/a

Date	Action / deliverable	Internal Work group only	External Plenary, Publication
9 November	Update to Plenary	Rapporteur	Plenary
13 December (Vienna)	Second meeting of work group – discuss Roadmap, First Opinion draft, discussion of different stakeholder inputs	Work group	(ETSI joined WG)
Year 2017			
27 January	Third meeting of work group – discuss feedback from Plenary and strategic Roadmap, discussion of further inputs and again on first Opinion draft	Work group	
7 February	<p>Update to Plenary</p> <p>For discussion at RSPG Plenary:</p> <p><u>Involvement of stakeholders:</u> WG welcomes guidance from Plenary on the extent and shape of 'stakeholder involvement' as outlined in the 'RSPG Second Stakeholder Workshop: Update on the Work Programme for 2016 and beyond' (e.g. involvement limited to consultation/input on draft Opinion or a dedicated workshop?)</p> <p>(Stakeholders are industry and users – especially the professional users. Discussion should focus around some direct, relevant questions, or perhaps a first initial draft of our opinion could be discussed in a stakeholder meeting)</p> <p><u>Strategic roadmap:</u> Inclusion of a relevant roadmap for industry and users after 2020 Y/N? Dedicated recommendations on frequency bands Y/N?</p>	Rapporteur	Plenary

Date	Action / deliverable	Internal Work group only	External Plenary, Publication
22 February (Vienna)	Fourth Meeting of working group – discussion on: <ul style="list-style-type: none"> • definition of PMSE • Equipment availability within Tuning ranges in Rec 70-03 • conclusion on audio PMSE • conclusions on video PMSE roughly touched • future digital dividends in UHF and timing on regulatory side – align with Lamy Report (2025, 2030) • not include past 2030 • high level requirements • UHF still fundamental for audio PMSE • Discussion about recommending 960 – 1164 MHz and/or 1400 MHz as a new global band for audio PMSE • digitalisation, cognitive abilities, WAMS, acceptable interference to PMSE, more intensive planning more efficient use of spectrum for events • encourage producers to improve spectrum efficiency • main messages in the conclusions part of draft opinion; 	Work group	
13 March	GoToMeeting <ul style="list-style-type: none"> • work on specific point of the recommendations of the opinion • work on specific points on the structure of the opinion 	Rapporteur	
21 March (Vienna)	Fifth Meeting of working group – discussion on: <ul style="list-style-type: none"> • new aspects proposed to the draft in regard to working practice and real life behavior of media and rental companies for large events • clear distinction between mass market and multichannel (professional) usage • work on alignment and compromise text • structure of audio and video part, and common text to both 	Work group	
21 – 22 April (Vienna)	Sixth Meeting of working group – discussion on: <ul style="list-style-type: none"> • work with text which are almost ok, concentrate on high level recommendations • work with main text, shortening and positioning of elements • proposal to include text on drones for video PMSE part • lifespan of and rental hold time for equipment 	Work group	

Date	Action / deliverable	Internal Work group only	External Plenary, Publication
22 – 23 May (Vienna)	<p>Seventh Meeting of working group - discussion on:</p> <ul style="list-style-type: none"> • baseline of video • finalise main body text (shortening, solve similar text, final wording and position of text) <p>Disussion about need for new global band and selecting criteria in case of a need</p>	Work group	
1 June	<p>Goto Meeting (Webmeeting) of Working Group:</p> <ul style="list-style-type: none"> • improved text of draft opinion; WG could find compromise text on harmonisation needs and global band issue; • editorial improvements; • discussion on adding an executive summary (supported some delegates) • due to the fact that this would change the overall structure of the document, it was decided to deliver the revision of the document without the addition of an executive summary – the addition could be proposed by delegation directly to the plenary. • Document is submitted to RSPG plenary for public consultation 		

Date	Action / deliverable	Internal Work group only	External Plenary, Publication
6 June	<p>Update to Plenary</p> <p>draft opinion for discussion at RSPG Plenary (RSPG17-024rev1-draft-RSPG_opinion_PMSE)</p> <p>State of play for the Opinion –</p> <p>1, public consultation could be envisaged, if RSPG plenary agrees.</p> <p>2, Public consultation could also follow via written procedure later in June, if guidance from RSPG plenary is to review the document and include an executive summary.</p> <p>Draft Opinion (RSPG17-024rev1-draft-RSPG_opinion_PMSE) is attached;</p> <p>No controversial issues left. evolution in the UHF band, such a recommendation should be seen also with some dependency (if UHF disappears for serving the PMSE peak demand and demand is bigger than proposed mitigation as described in all the sections cannot serve long term needs for audio PMSE)</p> <p>As this discussion arose in full depth quite late in the WG, it was not able to present a consensus view on this topic yet.</p>	Rapporteur	Plenary, [Publication]
[7 June]	Meeting of working group via GoToMeeting]	[Work group]	
June/July/August/...	Public consultation via written procedure	RSPG	
Future dates and actions to be decided in light of agreed work plan			