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## **RADIO SPECTRUM POLICY GROUP**

### **2<sup>nd</sup> Progress Report**

**on the update of RSPG Work Programme**

**“2014 and beyond”**

## **2nd Progress Report on draft RSPG Work Programme 2014 and beyond**

RSPG#32 agreed in November 2013 on a draft Work Programme “2014 and beyond” (see doc RSPG 13-543 Annex 1).

This draft WP has been subject to public consultation during 6 weeks. The public consultation has been closed the 6 January 2014. The comments from the following entities have been received:

BNE, Cable Europe, CRAF (Committee on Radio Astronomical Frequencies), GSMA, Motorola Solutions (MSI), NLkabel, Pearle Live Performance Europe, Silver Spring Networks, Telecom Italia, Telefonica.

A summary of comments is attached in Annex 1.

The comments mainly confirmed a large support to the work items as identified in the updated work programme. Some of them are entering in detail focus of future RSPG activities and are providing additional material for considerations in the working group when entering in the detailed activities.

Moreover, some comments addressed interference issues which have been discussed in the recent RSPG report on “*Interference Management*”. Two contributions addressed also in particular the issue of PPDR which have been carefully studied in the recent RSPG report on “*sectoral needs*”. The rationales of the work items “Long-term strategy on the future of the UHF band in the EU” and “Efficient awards and use of spectrum bands harmonised for Electronic Communications Services” have been updated as appropriate to refer to these recent RSPG activities.

One contribution refers to the proposal from European Commission for a Regulation concerning the Telecoms Single Market (TSM) which is currently subject to negotiation and suggested that the RSPG Work Programme should include the main topics considered by this EC proposal. The updated RSPG work-program has been improved. In particular the current negotiation of the draft TSM regulation has been mentioned in the rationale of the “Efficient awards and use of spectrum bands harmonised for Electronic Communications Services” and the time plan of the work item has been clarified. According to the results of on-going negotiation on TSM proposal, if necessary, the scope of this activity may be reviewed/refined at a later stage by RSPG.

It is proposed:

- to agree on the publication in the RSPG web pages of the comments received during public consultation (subject to agreement from the contributor).
- to finally agree on the updated Work Programme revised further to the public consultation (see doc RSPG14-553).
- to refer to relevant comments received, as appropriate, when launching the relevant activities in working group. The various comments served as additional information to the working group.

Member States are invited to comment this way forward.

An additional work item “**Wireless backhaul**” has been suggested by one response: Wireless backhaul including small cell coordination between MS.

**Member States will be invited to express views during the RSPG plenary meeting on that issue and topics<sup>1</sup> which could be investigated by RSPG during the last part of the year.**

According to the results of discussion, the proposed work item “**Wireless backhaul**” could be better reviewed in detail by correspondence in order to consider in our RSPG in June the need to update our work program to include this new additional work item.

**Annex:**

- Summary of responses

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<sup>1</sup> PMSE work item can be reconsidered in the future (Chairman’s report of RSPG#32).

**Summary of responses to the public consultation on the draft RSPG Work Programme 2014 and beyond**

This document summarized the main comments received during the public consultation of the draft RSPG WP. The comments will be made available in the RSPG web pages.

**BNE**

BNE provided the following main comments

- Long Term Evolution of UHF band

The work on "Long Term strategy for UHF band in EU Member States" should be a key input to the WRC-15 preparation activity. RSPG is invited to outline in its work programme: to develop its final Opinion to be delivered end 2014/beginning 2015.

The time schedule of this activity shall be aligned with the WI WRC 15.

Realistic scenarios should be considered on how a possible forced migration of current DTT networks based on DVB-T1 to DVB-T2 and enhanced compression technologies.

- RSPP II

Digital Terrestrial Television (DTT) service platforms and its evolution to be taken into careful consideration: support to migration to HDTV and to accommodate 3D and eventually UHD TV using the next generation of technology DVB-T2/HEVC

**Cable Europe**

Cable Europe highlighted the following issues:

- The need to duly address the rules of harmonization for radio and non-radio end user equipment for fixed broadcasting and broadband communications services using licensed and license exempted spectrum bands
- Cable Europe draw the RSPG's attention to the growing impact Wi-Fi is having on the mobile broadband market. Invite RSPG to carefully examine how to most efficiently re-allocate the future use of the 700 MHz band.
- spectrum policy makers should monitor and anticipate any coexistence between radio and non-radio end-user equipment using licensed and license exempted spectrum bands. RSPG is invited to maintain in its work program a work item on Interference Management.

- Review of RSPP: concerns regarding coexistence between radio and non-radio end-user equipment using licensed and license exempted spectrum bands should be carefully addressed.

### **CRAF (Committee on Radio Astronomical Frequencies)**

CRAF is of the opinion that the activity 'WRC-15 preparation (common policy objectives for WRC-15)' is an unnecessary duplication of the WRC-15 preparations that take place within the CEPT framework and should be removed from the draft working program. The WRC-15 preparation mechanism within CEPT is functioning quite well.

### **GSMA**

GSMA provided the following main comments

- A New work item is proposed on “wireless backhaul” including small cell coordination between MS
- RSPP II: EU level rules could be strengthened on issues like spectrum allocation, re-farming and spectrum trading in order to ensure timely availability of spectrum for mobile broadband across all markets. Indeed, article 6(8) of the RSPP Decision has mandated spectrum trading as envisaged in Article 9(b)(3) of the Framework

### **Motorola Solutions (MSI)**

MSI addressed the following issues:

- RSPP II: Gradual convergence of the two major radio distribution methodologies (“high power-high tower” and the small cell/spectrum reuse concepts as applied by mobile platforms such as LTE and then possibly LTE-Advanced-UHF) (first in Urban area). MSI proposed to carry over Article 8.3 (Decision 243/2012/EU), into a “RSPP II” 2015 – 2020
- 700 MHz mandate: support PPDR in 700 MHz : a preferred placing of PPDR broad band LTE spectrum as low as possible in the band 694 – 791 MHz
- WRC 15 spectrum range of 694 – 791 MHz (the 700 MHz range) as a candidate range for PPDR mobile broad band and as such is an immediate candidate for the revision of Resolution 646,

### **NLkabel (Association of Dutch Cable Operators)**

- LTE UHF - 700 MHz

Introduction of wireless broadband in the 700 MHz band may cause severe interference to non-radio broadband services delivered via HFC networks and RFoG networks (co-channel and adjacent channel interference (lessons learned from LTE800 : including the best practices). RSPG is invited :

- to include a full impact assessments of the potential for interference from wireless broadband in the 700 MHz band with existing customer equipment (including equipment used by non-radio-communication services such as cable)
- to develop a balanced strategy towards both safeguarding existing cable services and possibly allowing new use of spectrum.

- **ECS**

To consider also new comers to the market, national variations (more needs of higher frequencies in NL), WIFI needs in future (possible usage of parts of 2,3 GHz and 3,8-4,2 GHz spectrum)

Concerns expressed on development of LTE for use in unlicensed spectrum, Impact from interference from wireless broadband in the 700 MHz band to cable broadband

### **Pearle Live Performance Europe**

Pearle Europe invited RSPG to improve the work item “long term evolution of UHF spectrum” to include” in order to identify possible spectrum to accommodate PMSE in the 694-790 MHz band, while examining the possible impact on usage of spectrum by current incumbents including PMSE.

### **PSCE Europe**

PSCE mainly suggested slight amendments of the draft RSPG work program (Work item 2) and proposed to include as well PPDR in “to assess regulatory feasibility (e.g. using spectrum sharing, pooling) of key requirements of WBB systems (e.g. with larger bandwidth than 5/10 MHz) in different usage scenarios including both urban and rural areas while taking into consideration also PPDR requirements.

PSCE is ready to contribute to future workshops to be organized in this relation with this work item.

### **Silver Spring Networks**

SSN supported the WI on RSPP review in order to address sharing issues and highlighted strategic aspects of concrete on-going activities/results on sharing issues in other fora.

### **Telecom Italia**

Telecom Italia provided comments/proposals on various draft work Items

- UHF issues, TI supports a rapid definition of the future 700 MHz in the light of international developments,
- On ECS issues (WI 2) TI considers of utmost importance the use of technologies based on European standards to ensure interoperability of services, supports an analyze of new forms of operational usages (for example small cells and TDD fixed links), supports a least onerous authorization system with exclusive spectrum rights. Spectrum awards should only concern fully available frequency bands spectrum allocations,
- On the review of the RSPP, agrees on the opportunity to trace a roadmap for future broadband spectrum and the definition of a long term strategy for spectrum harmonization in the very long term. The frequency band 3.6-3.8GHz is mentioned to ensure a coordination at European level to grant the right of use of this band of frequency only after the final decision of WRC-15
- On WRC-15 preparation (common policy objectives for WRC-15): TI considers as essential the active participation by the EU institutions to the works of ITU and the consolidation of a common opinion on the topics to be discussed during the WRC-15; highlights the importance of individuating a harmonised channeling arrangement for mobile services in the 700MHz taking into account the necessity to exploit the potential economy of scale of a solution that is harmonised with the channeling in other areas (i.e., Asia-Pacific and Latin America).
- On Good offices” : the “good offices” should not be intended to replace ITU coordination. RSPG intervention should be appropriate only with the agreement of all the concerned parties, in cases in which the cross-border coordination cannot be solved by normal ITU and bilateral negotiation processes.

Regarding the proposal of the European Commission for a Regulation concerning the Telecoms Single Market (TSM), TI considers that the RSPG Work Programme should include the main topics considered by the EC proposal of the telecoms single market, with particular reference to: the harmonisation of the rights of use; the general authorisations principles; the spectrum allocation procedures.

### **Telefónica**

Telefonica emphasized the role of public consultations, supported an EU-level political agreement to reallocate the 700MHz band from DTT to WBB use, raised the role of good offices to assist with the bilateral / multilateral discussion of DTT re-planning. A date is suggested for the completion of the migration in 700 MHz band : 1 January 2018.

On WRC 15, Telefonica supported the need for the RSPG to build on its Interim Opinion on WRC-15, in order to help formulate common European policy objectives for the Conference next year. The network operator expects the provisional allocation

of the 700MHz band to the mobile service on a co-primary basis to be confirmed at WRC-15. Telefonica considers that WRC-15 decisions under Agenda Item 1.1 should take into account future demand for the next 10-15 years.

Telefónica believes that the second RSPP should play a role in the definition of a long term strategy for spectrum (including but not restricted to the UHF band) and that the review of the RSPP should take into account trends and enable next generation wireless services that extend to at least 2025 and should include a more extensive review of spectrum allocations (i.e. above 5GHz) to ensure that these future service needs can be fulfilled.