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# Global Summit

A NEW SPECTRUM MINDSET

**November 3-5, 2020**

VIRTUAL EVENT

## European Agenda for Spectrum Sharing

NOVEMBER 3, 2020



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### **Scott Blue, Spectrum Policy Expert, Microsoft**

Scott Blue has been involved in the introduction of new telecom and internet technology since helping to create Canada's largest internet service provider 25 years ago. He was pulled into the world spectrum sharing at the IEEE in 2004 when he proposed a real-time geolocation-based method that allowed mobile devices to use what is now called TV whitespace. Since 2013 he has represented Microsoft in spectrum policy discussions with regulators as well as at organizations including the ITU, CEPT, ETSI, IEEE, 3GPP, GSMA and Wi-Fi Alliance. In 2018 Scott moved from Seattle to Oulu, Finland, a major center for wireless innovation, where 6G research is already underway.



**Mauro Martino, Co-chair, RSPG Spectrum Sharing Group, Autorità per le Garanzie nelle Comunicazioni (AGCOM), Italy**

Mauro Martino is currently head of the Telecoms Spectrum office in AGCOM, the Italian National Regulatory Authority for telecommunications and broadcasting. He is responsible for telecoms spectrum management and policy issues.

He joined AGCOM almost 20 years ago soon after its institution and since then he has been responsible for spectrum management and licensing procedures preparing for the AGCOM decisions. Some of the main proceedings he carried out are those regarding the regulation and licensing of UMTS, Wireless Local Loop, Radio-LAN (Wi-Fi), BWA at 3.5 GHz, LTE at 800 and 2600 MHz, the 900 and 1800 MHz band refarming, the GSM and BWA renewal, up to the recent award procedure of the 5G pioneer bands at 700 MHz, 3.7 GHz and 26 GHz, which raised 6.5 billion euros.

At EU level, from its creation in 2002 he is member of the Radio Spectrum Committee, that deals with the spectrum harmonisation and implementing measures, and from 2008 of the RSPG, the Radio Spectrum Policy Group, advisor to the Commission for spectrum policy issues, within the Italian delegation.

Over time he was also member or chair of numerous Working Groups in Berec (former ERG), IRG (Independent Regulators Group), RSPG and Cocom, dealing with spectrum management or mobile market issues. In 2005 he chaired a Working Group that developed a Common Position on International Roaming after the first pan-European market analysis, and paved the way to the EU Regulation, and was the first proponent in 2008 of the so called "local break out" solution, that was later introduced in the EU Roaming III regulation in 2012. He assisted the AGCOM chairmanship of ERG in 2007 and RSPG in 2009 and 2012, and was member of the related leading groups.

Before joining AGCOM in 1999, he had worked for more than 10 years in the private sector, with leading companies in the telecommunications and ICT sectors.



# **Dynamic Spectrum Alliance Global Summit**

## **Views on Spectrum Sharing from RSPG**

**AVC Meeting, 3 November 2020**

**Mauro Martino**

**Head of Spectrum Office – AGCOM, Italy**

**Co-chair of the RSPG Spectrum Sharing Working Group**

## The activity of the RSPG WG on Spectrum Sharing

- RSPG, the advisory Group to the European Union Commission in spectrum policy matters
- Spectrum sharing needs further action for achieving more efficient use of spectrum and fostering innovation
- RSPG is investigating the means to improve spectrum sharing and to introduce more dynamic and efficient spectrum sharing solutions
  - ❑ especially by promoting trials (sandboxes), pioneer scenarios/bands, new forms of licensing and a strategic focus on take-up of methods using DB and AI
- An RSPG Opinion on Spectrum Sharing is foreseen by June 2021

# The activity of the RSPG WG on Spectrum Sharing

- Technologies and Approaches for spectrum sharing
  - ❑ Single-Tier (horizontal sharing)
  - ❑ Multi-Tier (vertical sharing)
- 'State-of-the-art' technologies enabling/improving spectrum sharing (including databases, 5G, AI and Blockchain)
- The information sharing as spectrum sharing enabler
- National experiences on implementing sharing solutions (eg. LSA, club use, etc.)

***Toolbox enabling various forms of spectrum sharing (both in licensed and unlicensed bands)***

- The above «toolbox» should cover the relevant scenarios:
  - ❑ sharing in licensed bands between operators
  - ❑ sharing in unlicensed bands
  - ❑ sharing in bands with incumbents both by licensed and unlicensed users

## **Strategic Spectrum Sharing issues under discussion**

- Promote innovative spectrum sharing solutions
- Lift the main obstacles to spectrum sharing to date
- Exploit flexibility of authorisation methods to facilitate spectrum sharing
- Foster harmonised technical conditions and more robust receivers
- Strengthen collaboration between Member States



The logo for the Radio Spectrum Policy Group (RSPG) features the acronym 'RSPG' in a bold, orange, sans-serif font. The letters are contained within a white, rounded rectangular shape that has a subtle gradient and a slight shadow, giving it a three-dimensional appearance. The background of the slide is a horizontal band with a red and orange flame-like pattern at the top, transitioning to a blue and white pattern below.

**RSPG**

RADIO  
SPECTRUM  
POLICY GROUP

**Thank you very much**



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**Thank You**