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EUCNC – 6G Summit

A regulatory view on Spectrum Sharing

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The (draft) RSPG Opinion on Spectrum Sharing

- RSPG21-006 draft document
- Currently under examination of Public Consultation results
- Options for promoting Spectrum Sharing
- Identification of key pioneer initiatives and bands
- Roadmap for increased Spectrum Sharing

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The accompanying Report

- Document RSPG21-016 Final «Report on Spectrum Sharing: a forward-looking survey»
- Background work supporting the Opinion
- The evolutionary context of Spectrum Sharing: spectrum sharing in its various aspects and dimensions, relations and boundaries with infrastructure sharing, authorisation regimes, leasing; the importance of information availability on spectrum usage
- Approaches and Technologies for spectrum sharing
  - Single-Tier approaches (horizontal sharing)
  - Multi-tiered approaches (vertical sharing)
  - 'State-of-the-art' technologies enabling/improving spectrum sharing (including cognitive, 5G, AI and Blockchain)
- The survey provided by the Report depicts a «toolbox» of solutions enabling different paradigms of spectrum sharing (both in licensed and unlicensed bands)
- The Annexes address, inter alia, background work from RSPG, relevant cases from worldwide regulators, and, particularly, EU national experiences and best practices on implementing sharing solutions (e.g. LSA, club use, etc.)

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Challenges in the process

- Licensed bands vs “open bands”
- Intra-service sharing vs inter-service sharing
- Predictability & legal requirements vs flexibility
- There is no one size that fits all
- Promising short term approaches: 2-tier cognitive local access, LSA, club use, light licensing in unlicensed bands, geo-sharing
- Some issues: legal status of automated contracts, contractual applicability of QoS stemming from AI functional blocks, boundaries with net neutrality/open Internet, right of appeal