



# EC-CEPT Workshop on WRC-15

Brussels, 10 December 2013

# Agenda

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This presentation will look at WRC-15 items to facilitate use of/access to satellite spectrum:

- ▲ Agenda item 1.5 (UASs)
- ▲ Agenda Item 1.6 (FSS Ku)
- ▲ Agenda Items 7 and 9.1.2 (coordination aspects)

## AI 1.5 Unplanned FSS spectrum for UAS

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- ▲ **Agenda Item 1.5** to consider the use of unplanned FSS frequencies for the control and non-payload communications (CNPC) of unmanned aircraft systems (UAS)
  - Opportunity for the FSS community to assume a substantial role in the emerging civil use of UAS
  - ITU-R studies ongoing under this agenda item (in WP5B w/ support from WP4A)
    - ICAO supports studies and has proposed conditions for use of FSS for CNPC of UAS to satisfy aviation safety concerns

### Solution

- Aviation safety concerns can be addressed by ICAO in the Standards & Recommended Practices (SARPS) for UAS CNPC
  - Certification of FSS supported communications links meeting these SARPS would be required by requisite aviation authorities
- SES supports use of FSS capacity for CNPC of UAS within the framework of the current Radio Regulations without the imposition of additional safety constraints, and via appropriate contracts between satellite operators and UAS users

## AI 1.6 More Ku band spectrum

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### Issue

- ▲ The existing unplanned bands for the FSS in the Ku band range are extensively used for a large variety of satellite applications (e.g. Distribution of TV programs, Direct To Home (DTH), Contribution and Occasional Use, Governmental use)
- ▲ In addition to the increasing demand for services in Ku band, the geostationary arc over Region 1 is already heavily used by unplanned Ku FSS satellites which will soon create a shortage of Ku band spectrum
- ▲ This lack of sufficient Ku band spectrum will be a challenge for any entity seeking to launch a new satellite system to cover Europe

### Possible solution

- ▲ WRC-15 will address this issue pursuant to its [Agenda Item 1.6.1](#) : “to consider possible additional primary allocations to the fixed-satellite service (Earth-to-space and space-to-Earth) of 250 MHz in the range between 10 GHz and 17 GHz in Region 1 ...”
- ▲ We encourage countries and companies in Europe to participate in this effort by following and contributing to the ITU and CEPT work

# AI 7 and 9.1.2

## Satellite coordination procedures

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- ▲ **Agenda Item 7** to consider possible changes to satellite advance publication, coordination, notification and recording procedures
  - We always favor **increased flexibility to access spectrum while protecting existing services**
  - We experience an opportunity to further **clarify and improve efficiency of satellite procedures** after experiencing changes adopted at WRC-12
  - We **do not see a need for a particular comprehensive review of the regulation**, but prefer the stable improvement mechanism already established with AI 7
  
- ▲ **Issue 9.1.2 of Agenda Item 9** to study criterion used in application of RR 9.41 and reduction of coordination arc in C, Ku and Ka band
  - A sub-set of AI 7 offering an opportunity to **reduce unnecessary coordination work** and workload of Administrations and ITU BR while maintaining adequate protection of existing services. In particular:
    - We support further reduction of the coordination arc in C and Ku band, but not in Ka band
    - We support replacing the current  $\Delta T/T$  interference criteria with more accurate pfd limits



**Thank you!**

