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|  | ASIA-PACIFIC TELECOMMUNITY |  |  |
| **APT Coordination Meetings During RA-12 and WRC-12** |  |
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Date: 2012/01/31

**REPORT OF THE WRC-12 AGENDA ITEM COORDINATOR**

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| **Agenda Item No.**: Agenda item 1.18 |
| **Name of the Coordinator ( with Email)**: Zhao xiaodong (CHN),Emai : xiaodongzhao1963@vip.sina.com |
| **Issues:**to consider extending the existing primary and secondary radiodetermination-satellite service (space-to-Earth) allocations in the band 2 483.5-2 500 MHz in order to make a global primary allocation, and to determine the necessary regulatory provisions based upon the results of ITU‑R studies, in accordance with Resolution **613 (WRC‑07)**; |
| **APT Proposals**:APT Members support extending the existing primary and secondary radiodetermination-satellite service (space-to-Earth) allocations in the band 2 483.5-2 500 MHz to make a global primary allocation on the following proposals below.1. Modify the footnote 5.400:

5.400 In Angola, Australia, Bangladesh, Burundi, China, Eritrea, Ethiopia, India, Iran (Islamic Republic of), the Libyan Arab Jamahiriya, Lebanon, Liberia, Madagascar, Mali, Pakistan, Papua New Guinea, the Dem. Rep. of the Congo, the Syrian Arab Republic, Sudan, Swaziland, Togo and Zambia, the use of RDSS systems for which their complete coordination information has been received by the Radiocommunication Bureau before [the end of WRC‑12], while retaining the primary status that they had before WRC‑12, shall continue to apply the procedure of No. **9.21** with respect to the countries not listed in this footnote (see also the provisions of No. **7.4A**).     (WRC‑12)**Reasons:** These provisions will retain the regulatory status of the existing RDSS systems after the global upgrade allocation in this band.1. To keep the threshold values of MSS and RDSS no change in appendix 5.
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| **Status of the APT Proposals:**1. About the footnote 5.399:

The APT compromised result is showed below.

|  |
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| Allocation to services |
| Region 1 | Region 2 | Region 3 |
| ... |
| 2 483.5-2 500FIXEDMOBILEMOBILE-SATELLITE(space-to-Earth) 5.351ARADIODETERMINATION-SATELLITE(space-to-Earth) 5.398Radiolocation ADD 5.A118, | 2 483.5-2 500FIXEDMOBILEMOBILE-SATELLITE(space-to-Earth) 5.351ARADIOLOCATIONRADIODETERMINATION-SATELLITE(space-to-Earth) 5.398 | 2 483.5-2 500FIXEDMOBILEMOBILE-SATELLITE(space-to-Earth) 5.351ARADIOLOCATIONRADIODETERMINATIONSATELLITE(space-to-Earth) 5.398 |
| 5.150 MOD 5.399 5.402 ADD 5.B118 | 5.150 5.402 | 5.150 5.402 ADD 5.B118 |

**MOD** [option-1]5.399 Stations of the radiodetermination-satellite service operating in filed after the end of WRC-12 shall neither cause harmful interference to, or claim protection from stations of the radiolocation service operating in [list of countries] in accordance withNo. **5.A118**.**[option-2]**5.399 Stations of the radiodetermination-satellite service, filed after the end of WRC-12, operating in [list of countries in region 1] shall neither cause harmful interference to, nor claim protection from stations of the radiolocation service operating in [list of countries] in accordance with 5.A118.1. About the MSS/RDSS threshold value increase:

The APT compromised result is showed below.

| Frequency band(MHz) | Terrestrial service to be protected | Coordination threshold values |
| --- | --- | --- |
|  |  | GSO space stations | Non-GSO space stations |
|  |  | pfd(per space station)calculation factors(NOTE 2)  | pfd(per space station)calculation factors(NOTE 2)  | % FDP(in 1 MHz)(NOTE 1) |
|  |  | *P* | *r* dB/degrees | *P* | *r* dB/degrees |  |
| 1 525-1 530 | AnalogueFS telephony(NOTE 5) | −146 dB(W/m2) in 4 kHz and −128 dB(W/m2)in 1 MHz | 0.5 | −146 dB(W/m2) in 4 kHz and −128 dB(W/m2) in 1 MHz | 0.5 |  |
|  | All other cases | −128 dB(W/m2) in 1 MHz | 0.5 | −128 dB(W/m2) in 1 MHz | 0.5 | 25 |
| 2 160-2 200 | AnalogueFS telephony(NOTE 5) | −146 dB(W/m2) in 4 kHz and −128 dB(W/m2)in 1 MHz | 0.5 | −141 dB(W/m2) in 4 kHz and −123 dB (W/m2) in 1 MHz(NOTE 6) | 0.5 |  |
| (NOTE 3) | All other cases | −128 dB(W/m2)in 1 MHz | 0.5 | −123 dB(W/m2)in 1 MHz(NOTE 6) | 0.5 | 25 |
| 2 483.5-2 500 (mobile-satellite service) | All cases | –146 dB(W/m2)in 4 kHz and –128 dB(W/m2)in 1 MHz | 0.5 | −142.5 dB(W/m2)in 4 kHz and  -124.5 dB(W/m2)in 1 MHz(NOTE xxx) | 0.65 |  |
| 2 483.5-2 500 (radio determination-satellite service) ADD (NOTE A118) | All casesexcept the radiolocation service in the countries listed in No. **5.A118** | −152 dB(W/m2)in 4 kHz−128 dB(W/m2)in 1 MHz | - | -152 dB(W/m2)in 4 kHz-128dB(W/m2)in 1 MHz(NOTE xxx) |  |  |
| 2 500-2 520     (SUP - WRC-07) |
| 2 520-2 535     (SUP - WRC-07) |

(NOTE xxx): In the countries (list of some countries) the MSS threshold values are −144 dB(W/m2) in 4 kHz and -126 dB(W/m2) in 1 MHz; the RDSS threshold values are −153 dB(W/m2) in 4 kHz and -129 dB(W/m2) in 1 MHz. |
| **Issues to be discussed at the Coordination Meeting:**1. **MOD**

[option-1]5.399 Stations of the radiodetermination-satellite service operating in filed after the end of WRC-12 shall neither cause harmful interference to, or claim protection from stations of the radiolocation service operating in [list of countries] in accordance withNo. **5.A118**.**[option-2]**5.399 Stations of the radiodetermination-satellite service, filed after the end of WRC-12, operating in [list of countries in region 1] shall neither cause harmful interference to, nor claim protection from stations of the radiolocation service operating in [list of countries] in accordance with 5.A118.1. **PFD level**

**[option-1]**(NOTE xxx): In the countries (list of some countries) the MSS threshold values are −144 dB(W/m2) in 4 kHz and -126 dB(W/m2) in 1 MHz; the RDSS threshold values are −153 dB(W/m2) in 4 kHz and -129 dB(W/m2) in 1 MHz.**[option-2]****Keep the MSS and RDSS PFD no change.****[option-3]****Keep the MSS PFD no change, decrease the RDSS [1 dB].** |
| **Comments/Remarks by the Coordinator**:1. The MSS threshold value increase issue: the initial APT position is no change. Through the compromised discussions, the final result is approved; please pay more attention to this compromised result.
2. The another important information which I need to request the APT members to focus is the proposal coming from RUS(RCC), in their proposal about the MOD footnote 5.399, the region 3 RDSS systems were requested to protect the RLS in region 1, and based on the present RR, the RDSS systems in region 3 do not need to protect the RLS in region 1. Within the APT member’s discussions, the compromised result is also approached, please pay attention to this.
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