|  |  |  |
| --- | --- | --- |
|  | | Doc. CPG(17)011 ANNEX IV-21A |
| CPG19-3 | | |
| Vienna, Austria, 14th - 17th March 2017 | | |
|  | |  |
| Date issued: | 17th March 2017 | |
| Source: | CPG19-3 minutes | |
| Subject: | Draft CEPT Brief on WRC-19 Agenda Item 9.1 issue 9.1.1 | |
|  | | |
| Summary: | | |
|  | | |
| Proposal: | | |
|  | | |

1. The following pages are intended to be compiled in one CEPT Brief on AI 9

DRAFT CEPT BRIEF ON AGENDA ITEM 9.1 Issue 9.1.1

9.1.1 Resolution 212 (Rev.WRC-15). Implementation of International Mobile Telecommunications in the frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz

# ISS

This agenda item addresses technical and operational measures to ensure the co-existence and compatibility between the satellite and terrestrial components of IMT in 1 980-2 010 MHz and 2 170-2 200 MHz in different countries.

# Preliminary CEPT position

CEPT is of the view that it is required to carry out compatibility studies and to define compatibility conditions of terrestrial component of IMT (in the mobile service) and satellite GSO and NGSO systems (in the mobile satellite service) in the frequency bands 1980-2010 MHz and 2170-2200 MHz considering the case that these frequency bands are used by the mobile service and mobile satellite service in different countries.

# Background

In accordance with Resolution 212 (Rev. WRC-15) noting further a) and b):

* that co‑coverage, co-frequency deployment of independent satellite and terrestrial IMT components is not feasible unless techniques, such as the use of an appropriate guard band or other mitigation techniques, are applied to ensure coexistence and compatibility between the terrestrial and satellite components of IMT;
* that, when the satellite and terrestrial components of IMT are deployed in the frequency bands 1 980-2 010 MHz and 2 170-2 200 MHz in adjacent geographical areas, technical or operational measures may need to be implemented to avoid harmful interference, and further studies by ITU‑R are required in this regard.

ITU-R WP 4C and WP 5D have joint responsibilities for studies under this agenda item.

WP 4C is responsible for the studies with respect to the satellite component of IMT, taking into account the technical and operational characteristics provided by WP 5D, while WP 5D is responsible for the studies with respect to the terrestrial component of IMT, taking into account the technical and operational characteristics provided by WP 4C.

Currently WP 4C and WP 5D are developing the Working Document towards the Preliminary Draft New Report or Recommendation ITU-R M.[MSS&IMT-ADVANCED SHARING].The scope of this document is to address the studies under Resolution 212 (Rev. WRC-15) and covers only the satellite component of IMT and the terrestrial component of IMT-advanced.

In CEPT the bands 1 980-2 010 MHz and 2 170-2 200 MHz are designated to the MSS (see ECC Decision (06)09).

# List of relevant documents

ITU-Documentation (Recommendations, Reports, other)

* Annex 8 to Working Party 4C Chairman’s Report (4C/102) WORKING DOCUMENT TOWARDS A PRELIMINARY DRAFT NEW [RECOMMENDATION OR REPORT] ITU-R M.[MSS&IMT-ADVANCED SHARING] Coexistence and compatibility study between mobile satellite systems and terrestrial IMT-Advanced systems in the IMT-2 GHz bands in different countries.

CEPT and/or ECC Documentation (Decisions, Recommendations, Reports)

* ECC/DEC/(06)09

EU Documentation (Directives, Decisions, Recommendations, other), if applicable

* Commission Decision of 14 February 2007 on the harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services: (2007/98/EC)
* Commission Decision of 13 May 2009 on the selection of operators of pan-European systems providing mobile satellite services (MSS): (2009/449/EC).

# Actions to be taken

Monitor studies in ITU-R WP 4C and ITU-R WP 5D

# Relevant information from outside CEPT (examples of these are below)

## European Union (date of proposal)

## Regional telecommunication organisations

APT (date of proposal)

ATU (date of proposal)

Arab Group (date of proposal)

CITEL (December 2016)

Preliminary Views

|  |  |
| --- | --- |
| Canada | There should not be any impact from the outcome of these studies on the existing use of the frequency bands by the terrestrial component of IMT in 2 170-2 180 MHz (part of the 1 710-1 780 / 2 110-2 180 MHz IMT frequency band) nor on flexible MS/MSS use in 2 000-2 010 & 2 180-2 200 MHz. |

RCC (16 September 2016)

The RCC Administrations are in favour of development of technical and operational measures as well as regulatory provisions with regard to IMT systems in order to ensure compatibility between IMT terrestrial component (in mobile service) and IMT satellite component (in mobile-satellite service) in the frequency bands 1980−2010 MHz and 2170−2200 MHz where those frequency bands are shared by mobile service and the mobile-satellite service in different countries.

The RCC Administrations consider that when developing technical and operational measures with regard to terrestrial IMT systems only those characteristics of IMT systems which are specified in ITU-R Recommendations and Reports should be used.

## International organisations

IATA (date of proposal)

ICAO (date of proposal)

IMO (date of proposal)

SFCG (June 2016)

SFCG should continue to monitor the developments of this agenda item in WPs 4C and 5D for any potential outcomes that could degrade the use of the 2 200-2 290 MHz band by the space science services.

WMO and EUMETNET (date of proposal)

## Regional organisations

ESA (date of proposal)

Eurocontrol (date of proposal)

## OTHER INTERNATIONAL AND REGIONAL ORGANISATIONS

EBU (date of proposal)

GSMA (date of proposal)

CRAF (date of proposal)