**Report of the Agenda Item1.5 Coordinator during WRC-19**

Name and email of the Coordinator: Noriyuki INOUE (ni-inoue@kddi.com)

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1. Agenda Item

**Agenda Item 1.5:** *to consider the use of the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) by earth stations in motion communicating with geostationary space stations in the fixed-satellite service and take appropriate action, in accordance with Resolution* ***158 (WRC-15)***

Resolution **158 (WRC-15)**: *Use of the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) by earth stations in motion communicating with geostationary space stations in the fixed-satellite service*

1. APT Common Proposals and APT Views for WRC-19 (which has been submitted to WRC-19)



APT Members support the ACP as shown here based on the input contributions and discussions during APG19-5.

1. Topics proposed by other regional Groups or ITU Members which are not included in no. 2 above

Contributions to WRC19 is as follows,

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| Doc No. | Author | Contents |
| 11A5 | CITEL | Common Proposal based on CPM Report |
| 12A5 | RCC | Common Proposal based on CPM Report |
| 16A5 | CEPT | Common Proposal based on CPM Report |
| 24A5 | APT | Common Proposal based on CPM Report |
| 28A5 | CHN | Proposal based on CPM Report |
| 29A5 | ASMG | Common Proposal based on CPM Report |
| 17 | IMO | Description to support the establishment of appropriate conditions for ESIM |
| 46A5 | ATU | Common Proposal based on CPM Report |
| 47A5 | AUS | Proposal based on ACP  |
| 61A5 | KOR | Complement to 65 |
| 65 | J, KOR, SNG | Proposal based on CPM Report |
| 75 | SMO | Analysis against 61A5 |
| 89A5 | SADC | Common Proposal based on CPM Report |
| 92A5 | IND | Proposal based on CPM Report |
| 95 | SMO, VUT | Proposal based on CPM Report |

1. Progress of discussion during WRC-19 on the Agenda Item
* Item1.5 is handled by SWG5A2 (Chairman: Mr. Mario Neri).
* SWG5A2 met 7 times. The 4th meeting was technical session dealing with 61A5 and 75A5.
* SWG5A2 chairman prepared main issues(See below. 11issues identified by chairman. With ACP one more issue was addressed) and started detail discussion from the 2nd meeting and finished it in the 6th meeting. However, most of the issues retained without conclusion.
* To address the remaining issues and rest of the resolution, the chairman prepared regulatory text (draft new resolution). And started discussion on the document in the 7th meeting.
* In the 7th meeting the conditions ESIM shall comply with regarding space services was discussed and still to be continued.
* The main difference between the proposed idea from the chairman and ACP was the timing when the BR accept the ESIM information for examination. ACP (in line with CPM) defined the BR accept the information in the stage of coordination, however, new proposal indicates the BR accept the information the beginning of notification stage.
* The detail discussion based on the revised text of related sections will be prepared and discussed in the beginning of this week.

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| Isuue No | TitleResult(Status) | CPM reference |
| 1 | Relationship between ESIM and the satellite network under which they operate | *resolves* **1.1.1** |
| In this resolution envelope means envelope characteristic of satellite network and does not include envelope of coordination. |
| 2 | At which stage of the regulatory process of a satellite network can an ESIM operate? At which stage should the BR carry out an examination of the characteristics of ESIM with respect to those of the relative satellite network? | *resolves* **1.1.4** and **1.1.5** |
| Chairman will propose regulatory text to start compromise. |
| 3 | Does the resolution need to indicate specific provisions that ESIM should comply with to protect non-GSO MSS feeder-links? | *resolves* **1.1.7** |
| CITEL will consider whether the condition can be as guidance. |
| 4 | Are the limits contained in Annex 2/3 enough to protect terrestrial services and their future development or are additional provisions needed? | *resolves* **1.2.2** and **1.2.3** |
| Will be discussed again after Annex is settled |
| 4bis | The Bureau shall examine the information with respect to its conformity with the pfd limits specified in Part 2 of Annex 2 on the Earth’s surface | *New resolves* **1.2.3** byACP and AUS |
| Will be discussed again after Annex(pfd discussion) is settled |
| 5 | Is there a need for a commitment by the administration responsible for the satellite network with which the ESIM communicate to remove any unacceptable interference in case it occurs? | *resolves* **1.2.4** |
| Almost agreed but final decision will be made with regulatory text. |
| 6 | Are the conditions indicated in Annex 2 sufficient to ensure the protection of terrestrial services | *resolves* **1.2.5** |
| Will be discussed again after Annex(pfd discussion) is settled |
| 7 | Protection of other space services (Annex 1). To which band should the off-axis e.i.r.p. limits of an ESIM apply? | Provision ***1a)*** of **Annex 1** |
| No conclusion |
| 8 | Protection of other space services (Annex 1). Can the on-axis e.i.r.p. of an ESIM not meeting the limits in *1a)* be increased and/or decreased proportionately? | Provision ***1b)*** of **Annex 1** |
| No conclusion |
| 9 | Which are the technical, operational and regulatory conditions that would ensure that M-ESIM protect terrestrial services?  | **Annex 2** |
| 70km and CEPT will consider the reference bandwidth of 1MHz for e.i.r.p |
| 10 | Which are the technical, operational and regulatory conditions that would ensure that A-ESIM protect terrestrial services? | **Annex 2** |
| No conclusion |
| 11 | Responsibilities of the administrations involved in the operation and authorisation of ESIM for the management of potential interference | **Annex 3** |

1. Issues which require discussion at APT Coordination Meetings and seek guidance thereafter

*Note: Coordinators are encouraged to conduct informal consultation with interested APT Members on the issues/topics under no. 3 and inform the outcomes of consultation to the Coordination Meeting*. *Coordinators can also organize coordination meetings on the respective agenda items whenever necessary.*