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| **World Radiocommunication Conference (WRC-19) Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Addendum 7 to Document 12(Add.21)-E** |
|  | **23 June 2019** |
|  | **Original: Russian** |
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| Regional Commonwealth in the field of Communications Common Proposals | |
| proposals for the work of the conference | |
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| Agenda item 9.1(9.1.7) | |

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:

9.1 on the activities of the Radiocommunication Sector since WRC-15;

9.1 (9.1.7) Resolution **958 (WRC-15)** – Annex item 2) Studies to examine: a) whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. **18.1**; b) the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory, as a tool to guide their national spectrum management programme, in accordance with Resolution ITU-R 64 (RA-15);

Introduction

The issue under study is uplink transmissions from such earth stations not adhering to certain international regulations or national service rules: i.e. an earth station operating in the territory of a country without any authorization obtained from that country. Unauthorized uplink earth station transmissions may also cause interference to legitimate users as well as raise other difficulties for administration spectrum managers.

There are two separate issues under this issue – Issue 2a (additional measures in order to limit unauthorized uplink transmissions of terminals) and Issue 2b (possible methods for managing the unauthorized operation of terminals at the national level).

Issue 2a

The RCC Administrations support the development and inclusion in the Radio Regulations of additional provisions obliging administrations, when licensing, to ensure that appropriate technical measures are implemented in satellite networks, such as the measures specified in Resolution **156 (WRC-15)** (permanent monitoring and control of earth stations in motion (ESIM) by a Network Control and Monitoring Centre (NCMC), execution by ESIM of “enable transmission” and “disable transmission” commands depending on their geographical position), that would help to prevent the unauthorized operation of earth station terminals in global/regional satellite networks, when such terminals are outside the territory of the States whose administrations have granted the appropriate authorization (licence).

The RCC Administrations consider that no transmitting mobile earth station or ESIM should be operated within the territory of any State without an appropriate licence (authorization) from the State, issued in an appropriate form and in conformity with the provisions of the Radio Regulations by or on behalf of the government of that State.

The RCC Administrations consider that the issue of preventing the unauthorized operation of earth station terminals should be considered under WRC-19 agenda item 9.1 issue 9.1.7, which covers all frequency bands and all types of ubiquitous FSS earth stations, and under agenda item 1.5, which deals with issues relating to the operation of ESIM in the frequency bands 27.5-29.5 GHz (space-Earth).

Issue 2b

To further assist administrations in managing (identifying and geolocating) the unauthorized operation of earth stations deployed within their territory, the ITU-R needs to provide necessary guidelines on satellite monitoring capabilities, along with possible revision and further development of ITU-R Reports or Handbooks in this regard. These may provide guidance and support for administrations in managing the unauthorized operation of earth stations deployed within their territory and tools to guide their national spectrum management.

ADD RCC/12A21A7/1

Draft New Resolution [RCC/A917] (WRC-19)

Measures to limit unauthorized uplink transmissions  
from earth stations

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

considering

*a)* that in accordance with Resolution **958 (WRC-15)** and Resolution ITU-R 64 (RA‑15) the following issues were studied:

– whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. **18.1**;

– the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory, as a tool to guide their national spectrum management programme;

*b)* that demand has been increasing for global satellite broadband communication services throughout the world,

recognizing

*a)* that the notifying administration of an FSS satellite network has the responsibility to ensure that the earth stations associated with the FSS network have obtained the required authorization as referred to in No. **18.1**, from the administrations on whose territory the earth stations intend to operate;

*b)* that successful coordination of a satellite network or system does not imply licensing authorization to provide a service within the territory of a Member State,

noting

*a)* that the ITU Constitution recognizes the sovereign right of each Member State to regulate its telecommunications;

*b)* that Article **18** specifies the authorities for licensing the operation of stations within any given territory,

resolves

1 that notifying administrations for a satellite network shall take appropriate actions to ensure the operation of earth stations to only those licensed or authorized by the administrations on the territory of which they are located and operated;

2 that the notifying administration, for the satellite network within which earth stations that can operate while in motion are associated, shall ensure that they have the capability to limit operations of such earth stations to the territory or territories of administrations having authorized those earth stations and to comply with Article **18**;

3 that, when the source of unauthorized earth station transmission is identified and reported to the notifying administration responsible for the identified FSS satellite network, that notifying administration shall cooperate with the reporting administration to take appropriate action to resolve the matter in a satisfactory and timely manner,

invites administrations

1 to take all appropriate actions to make publicly and readily available the procedures for licensing/authorizing the operation of earth stations in their territories;

2 that have identified unauthorized operation of earth stations within their territories to provide relevant information to BR to report such cases;

3 when requested by BR or another administration, to cooperate to the maximum extent practicable with assistance in identifying unauthorized earth stations with monitoring or geolocation services,

instructs the Director of the Radiocommunication Bureau

1 upon receipt of notice accompanied by the available information from an administration detecting an unauthorized uplink transmission from its territory, to immediately inform Member States and satellite operating agencies of the matter by appropriate means and work with the administrations involved to resolve the matter;

2 to inform the administrations on the type of assistance ITU can provide on this issue,

instructs the Secretary-General

to stress the importance and ensure the circulation of this Resolution to all Member States.

**Reasons:** Earth station terminals located within the coverage area of the repeater, which includes, *inter alia*, the territories of States that have not issued transmission licences or authorizations, have the technical capability of connecting to a satellite network intentionally or accidentally and thus to carry out transmissions in violation of Article 18 of the Radio Regulations. The implementation of technical measures to ensure that earth stations execute the commands "enable transmission" and "disable transmission" according to their geographical location will make it possible to prevent transmissions of earth station terminals when they are outside the territory of the States whose administrations have issued the appropriate authorization (licence).

RESOLUTION 958 (WRC-15)

Urgent studies required in preparation for the  
2019 World Radiocommunication Conference

MOD RCC/12A21A7/2

ANNEX TO RESOLUTION 958 (WRC-15)

Urgent studies required in preparation for the   
2019 World Radiocommunication Conference

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**Reasons:** ITU-R studies to identify additional measures in order to limit unauthorized uplink transmissions of terminals have been completed and with the adoption of a new WRC Resolution further studies are not required. Methods which will assist administrations in managing the unauthorized operation of earth station terminals deployed within their territory, as a tool to guide their national spectrum management programme, will be developed by the ITU-R Study Groups, in accordance with their work plans.

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