

ITUWORKSHOPS

1st ITU Inter-regional Workshop on WRC-19 Preparation

21 - 22 November 2017

Geneva, Switzerland

www.itu.int/go/ITU-R/wrc-19-irwsp-17



1st ITU INTER-REGIONAL WORKSHOP ON WRC-19 PREPARATION (Geneva, 21-22 November 2017)

**Unauthorized earth
station terminals
(WRC-19 agenda item 9.1,
issue 9.1.7 from
Resolution 958 (WRC-15)
Annex item 2)**

***CHANG Ruoting
Chairman, WP 1B***



90th Anniversary
CCIR - ITU-R Study Groups
(1927-2017)

Organized by:





Resolution 958 (WRC-15)

resolves

to complete studies on the topics identified in this resolution and its annex,

invites ITU-R

as a matter of urgency, to complete the studies called for in this resolution,

instructs the Director of the Radiocommunication Bureau

to report on these studies under agenda item 9.1 of WRC-19, as appropriate, based on the results of studies.

ANNEX

Urgent studies required in preparation for WRC-19

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)



Resolution ITU-R 64 (RA-15)

Guidelines for the management of unauthorized operation of earth station terminals

resolves to invite ITU-R study groups concerned

- 1 to conduct **studies to examine whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those terminals authorized in accordance with No. 18.1;**
- 2 to study the **possible methods that 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.

No. 18.1 of the Radio Regulations

18.1 § 1 1) No transmitting station may be established or operated by a private person or by any enterprise without a licence issued in an appropriate form and in conformity with the provisions of these Regulations by or on behalf of the government of the country to which the station in question is subject (however, see Nos. **18.2**, **18.8** and **18.11**).



Allocation of ITU-R preparatory work for WRC-19

Topic	Responsible group	Concerned groups
<u>Issue 9.1.7:</u> Issue 2) in the Annex to Resolution 958 (WRC-15)	<u>WP 1B</u> (Spectrum management methodologies and economic strategies)	<u>WP 1C</u> (Spectrum monitoring) <u>WP 4A</u> (Efficient orbit/spectrum utilization for the FSS and BSS)

Background & Issue under study

- FSS systems designed to meet the demand for global communication services are characterized by **flexible, rapid and ubiquitous deployment of large numbers of cost-optimized earth stations employing small antennas and having common technical characteristics.**
- The issue under study is **ubiquitous uplink transmissions from satellite terminals not adhering to international regulations or national service rules.** Unauthorized ubiquitous uplink satellite transmissions **may cause interference to legitimate users as well as raise other difficulties for ADM spectrum managers.**

Source: Working document towards draft CPM text on WRC-19 agenda item 9.1, issue 9.1.7 – Res. 958 (WRC-15) Annex item 2 (see [Annex 7](#) to [Doc. 1B/193](#) of 10 July 2017)



Relevant ITU-R studies focused on two aspects*

- What, if any, **modifications to the Radio Regulations** could help **ADM inhibit the use of these unauthorized uplink terminals?**
- What **tools, techniques or other information** could be provided
 - **to assist an ADM in inhibiting the deployment or use of these unauthorized ubiquitous uplink satellite terminals** and,
 - **if they were operating without authorization, how to locate them so action could be taken by the administration?**

* see [Annex 7](#) to [Doc. 1B/193](#) of 10 July 2017

Note: Additional information on the results of a Questionnaire and on the results of the discussions, not yet agreed in the June 2017 meeting of [WP 1B](#), can be found in the working document in [Annex 9](#) to [Doc. 1B/193](#) of 11 July 2017.



Future work

A liaison statement from the October 2017 meeting of [WP 4A](#), and [new contributions](#) to the **23-30 November 2017** meeting of [WP 1B](#) will be considered to further **develop the draft CPM text** on this issue, as well as the associated working document.