

**PCC.II/REC. 50 (XXVII-16) <sup>1</sup>**

**AUTHORIZATION OF EARTH STATIONS IN MOTION COMMUNICATING WITH  
GEOSTATIONARY SPACE STATIONS IN THE FIXED SATELLITE SERVICE IN THE  
FREQUENCY BANDS 19.7-20.2 GHZ AND 29.5-30.0 GHZ IN THE AMERICAS**

The 27<sup>th</sup>. Meeting of Permanent Consultative Committee II: Radiocommunications including Broadcasting,

**CONSIDERING:**

- a) That the bands 19.7-20.2 GHz and 29.5-30.0 GHz are globally allocated on a primary basis to the FSS and that there are a large number of geostationary satellite orbit (GSO) FSS satellite networks operating in these frequency bands;
- b) That there is an increasing need for mobile communications, including global broadband satellite services, and that some of this need can be met by allowing earth stations that can operate while stationary or in motion on platforms (such as ships, aircraft and land vehicles) to communicate with space stations of the FSS operating in the frequency bands 19.7-20.2 GHz and 29.5-30.0 GHz;
- c) That earth stations in motion (ESIM) are currently operating in GSO FSS networks in the bands 19.7-20.2 GHz and 29.5-30.0 GHz;
- d) that important sectors including maritime, aeronautical, energy and government can benefit significantly from the services provided using ESIM;
- e) that the ITU-R has studied certain technical and operational aspects of these earth stations in motion in the referenced bands, see ITU-R Report S.2357;

**RECOGNIZING:**

- 1) That WRC-15 adopted RR No. **5.527A** and Resolution **156** that together provide a global framework for the operation of ESIM with GSO space stations in the Fixed-Satellite Service in the bands 19.7-20.2 GHz and 29.5-30.0 GHz;
- 2) That the Radiocommunication Bureau introduced a new class of station for ESIMs communicating in the FSS in the bands referred to in No. 5.527A.
- 3) that the framework adopted by WRC-15 was based on the Inter-American Proposal (IAP) to the Conference on this topic and is fully consistent with it;
- 4) that some CITEL Administrations have already adopted national regulations consistent with the framework adopted at WRC-15;
- 5) that various CITEL Administrations have authorized ESIM operation in their countries;

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<sup>1</sup> PCC.II-RADIO/doc. 4046/16 r2

6) that implementation of national regulatory frameworks in the Americas would facilitate the deployment of services that could be offered with the use of ESIMs,

**RECOMMENDS:**

That, in the band 19.7-20.2 GHz (space-to-Earth) and 29.5-30.0 GHz (Earth-to-space), CITELE Administrations consider the adoption of national provisions to facilitate the deployment of ESIMs consistent with the framework adopted by WRC-15.