

United States of America

DRAFT PROPOSALS FOR THE WORK OF THE CONFERENCE

Agenda Item 1.10: to consider spectrum requirements and possible additional spectrum allocations for the mobile-satellite service in the Earth-to-space and space-to-Earth directions, including the satellite component for broadband applications, including International Mobile Telecommunications (IMT), within the frequency range from 22 GHz to 26 GHz, in accordance with Resolution **234 [COM6/16] (WRC-12)**;

Background information

WRC-12 adopted agenda item 1.10 in order to consider additional allocations to the mobile-satellite service (MSS) taking into account ITU-R studies in accordance with Resolution **234 (WRC-12)**. Resolution **234 (WRC-12)** invites the ITU-R to complete, for WRC-15, sharing and compatibility studies towards additional allocations to the mobile-satellite service in the Earth-to-space and space-to-Earth directions, within portions of the bands between 22 GHz and 26 GHz, while ensuring protection of existing services within these bands as well as taking into account No. **5.340** and No. **5.149**.

WARC-92 adopted numerous MSS allocations. However, WRC-97 and WRC-2000 made modifications to and suppressed some of these MSS allocations because sharing with other services was difficult or the conditions of use by MSS in some bands were impractical. WRC-12 considered possible new MSS allocations in the 4-16 GHz range under agenda item 1.25. ITU-R studies and WRC-12 determined that sharing with existing services by small mobile terminals in this range would require complex regulatory provisions and therefore, no MSS allocations resulted. As a consequence, WRC-12 agreed to include agenda item 1.10 on the agenda for WRC-15, to consider possible MSS allocations in the 22-26 GHz range.

~~Considering~~ the use of existing MSS allocations, ~~and considering the ongoing development of other systems employing mobile terminals,~~ it appears that ~~sufficient spectrum is allocated~~ to accommodate the needs of ~~the~~ MSS. In addition, sharing with existing allocated services would be difficult.

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Reasons: The conditions for satisfying this agenda item would be difficult if not impossible to meet. ~~Sharing~~ with incumbent services ~~will require technical and~~

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operational constraints that will result in spectrum being impractical for use by the MSS.

Additionally specific atmospheric propagation conditions around 24 GHz are such that the indicated telecommunication links cannot be achieved.

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