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| U.S. Radiocommunications Sector  Fact Sheet | | |
| **Working Party:** ITU-R WP 5C | **Document No:** USWP5C 31-05 | |
| **Ref:** WRC-27 AI 1.13 | **Date:** August 23, 2024 | |
| **Document Title:** Proposed draft liaison statement to Working Party 4C | | |
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| **Purpose/Objective:** This contribution proposes a draft liaison statement to WP 4C regarding AI 1.13, which will allow WP 4C to proceed with its planning for sharing and compatibility studies. | | |
| **Abstract:** Pursuant to Resolution **253 (WRC-23)**, in preparation for Agenda Item 1.13 (**WRC-27**), this contribution proposes a draft reply liaison statement to WP 4C with relevant technical information of systems operating in the FS frequency band 1 780-1 850 MHz. | | |

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| **12 September 2024** |
| **English only** |
| United States of America | |
| proposed draft reply liaison statement to Working party 5D  **Relevant technical information for sharing studies under WRC-27 Agenda Item 1.13** | |
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**Introduction**

WRC-27 Agenda Item 1.13 considers possible new allocations to the mobile-satellite service in the frequency range between 694/698 MHz and 2.7 GHz, for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage, in accordance with Resolution **253 (WRC-23).** This contribution proposes a draft reply liaison statement to WP 4C with relevant technical information of fixed systems operating in the fixed service frequency band 1 780-1 850 MHz.

Attachment: 1

ATTACHMENT

# Working Party 5C

PROPOSAL DRAFT REPLY LIAISON STATEMENT TO WORKING PARTY 4C

**Fixed service characteristics for use in sharing  
 studies under WRC-27 agenda item 1.13**

Working Party (WP) 5C has sent WP 4C a liaison statement (Document 4C/88), providing the characteristics and protection criteria of the fixed service (FS) systems operating in the frequency band 1 780-1 850 MHz, for sharing and compatibility studies between the FS and mobile satellite service (MSS) under WRC-27 agenda item 1.13. In addition to the characteristics provided in the ITU-R Rec. F.758, Table 1 below provides characteristics for FS that were not included in the Recommendation. WP 5C requests consideration of these characteristics in the sharing and compatibility studies for WRC-27 AI 1.13.

**Table 1**

|  |  |
| --- | --- |
| Frequency range (GHz) | 1 780-1 850 MHz |
| Modulation |  |
| Channel spacing and receiver noise bandwidth (MHz) |  |
| Tx output power range (dBW) |  |
| Tx output power density range (dBW/MHz) |  |
| Feeder/multiplexer loss range (dB) |  |
| Antenna gain range (dBi) |  |
| e.i.r.p. range (dBW) |  |
| e.i.r.p. density range (dBW/MHz) |  |
| Receiver noise figure typical |  |
| Receiver noise power density typical (=*NRX*) (dBW/MHz) |  |