|  |
| --- |
| U.S. Radiocommunications SectorFact Sheet |
| **Working Party:** ITU-R WP 4C | **Document No:** USWP4C-xx |
| **Ref:** N/A | **Date:** 22 Mar 2024 |
| Document Title: Draft Liaison Statement [AI 1.13 sharing and compatibility studies] |
| **Author(s)/Contributors(s):**Jameson DempseySpaceXZahid IslamSpaceXBrett TarnutzerSpaceXPascale DumitT-Mobile | Email: Jameson.Dempsey@spacex.com Phone: Email: km.islam@spacex.com Phone: Email: brett.tarnutzer@spacex.com Phone: Email: Pascale.Dumit@T-Mobile.com Phone:  |
| **Purpose/Objective:**  Draft liaison statements to the contributing groups for the technical and operational characteristics including propagation models, as appropriate, for the sharing and compatibility studies under WRC-27 Agenda item 1.13. |
| **Abstract:** The proposed contribution contains proposed liaison statements to be sent to all contributing groups to WRC-27 Agenda Item 1.13. |

|  |  |
| --- | --- |
| **Radiocommunication Study Groups** | A blue logo with a black background  Description automatically generated |
|  |  |
|  |  |
| Source: -Subject: WRC-27 agenda item 1.13 | **Document 4A/TBD** |
| **TBD May 2024** |
| **English only** |
| United States of America |
| Draft LIAISON STATEMENTS TO WORKING PARTies 3L, 3M, 4A, 4B, 5A, 5B, 5C, 5D, 6A, 7B, 7C

|  |
| --- |
|  |

**WRC-27 agenda item 1.13** |

Attachment: 3

**Attachment 1**

Draft LIAISON STATEMENT TO WORKING PARTies 4A, 4B, 5A, 5B, 5C, 5D, 6A, 7B, 7C

**WRC-27 Agenda Item 1.13**

Agenda item 1.13 calls for studies on possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage.

Working Party 4C is looking at conducting sharing and compatibility studies in bands between 694 - 2 700 MHz identified for IMT in the Radio Regulations and reflected in Recommendation ITU-R M.1036.

Therefore, the contributing Working Parties identified by CPM 27-1 are requested to provide relevant information, including technical and operational characteristics and protection criteria for the respective services allocated in, or adjacent to, these frequency bands identified for IMT.

Working Party 4C will keep all the contributing Working Parties informed of developments regarding this agenda item.

|  |
| --- |
| **Status:** For action |
| **Deadline:** Preferably by [] |
| **Contacts:** [] | **E-mails:** [] |
|  |  |

**Attachment 2**

Draft LIAISON STATEMENT TO WORKING PARTies 3L, 3M

**WRC-27 Agenda Item 1.13**

Agenda item 1.13 calls for studies on possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage.

Working Party 4C is looking at conducting sharing and compatibility studies in bands between 694 - 2 700 MHz identified for IMT in the Radio Regulations and in conformance with the directionalities of the terrestrial frequency arrangements in Recommendation ITU-R M.1036.

Therefore, Working Parties 3L and 3M are requested to provide relevant information about propagation models and relevant Recommendations to be used in the sharing and compatibility studies to be carried out within Working Party 4C.

With respect to the scenarios to be considered in the sharing and compatibility studies, the envisaged operations these types of satellite networks would conform to the directionalities of the terrestrial frequency arrangements as defined in Recommendation ITU-R M.1036 for the paired arrangements frequency division duplex (FDD) frequency bands.

Working Party 4C will keep all the contributing Working Parties informed of developments regarding this agenda item.

|  |
| --- |
| **Status:** For action |
| **Deadline:** Preferably by [] |
| **Contacts:** [] | **E-mails:** [] |
|  |  |

**Attachment 3**

Draft REPLY LIAISON STATEMENT TO WORKING PARTY 5D

**WRC-27 Agenda Item 1.13**

In February 2024, Working Party 5D sent a liaison statement to Working Party 4C (see [Doc 4C/3](https://www.itu.int/md/R23-WP4C-C-0003/en)) seeking information on the “system description and functionality, including frequency bands considered for Earth-space and space-Earth operation” to enable Working Party 5D to provide Working Party 4C information on the sharing scenarios necessary for assessing the impact to IMT terrestrial systems”.

Working Party 5D is also seeking confirmation that planned “operations would conform to the directionality of the terrestrial frequency arrangements as defined in Recommendation ITU-R M.1036.”.

In response to the liaison statement from Working Party 5D, Working Party 4C is pleased to confirm that the envisaged operations for these types of satellite networks would conform to the directionalities of the terrestrial frequency arrangements as defined in Recommendation ITU-R M.1036 for the paired arrangements frequency division duplex (FDD) frequency bands.

With respect to the envisaged system description and characteristics for these types of satellite networks, Working Party 4C will provide the corresponding information at the second Working Party 4C in October 2024, noting the 21 December 2024 deadline agreed at CPM.

|  |
| --- |
| **Status:** For action |
| **Deadline:** Preferably by [] |
| **Contacts:** [] | **E-mails:** [] |