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| U.S. Radiocommunications Sector  Fact Sheet | |
| **Working Party:** ITU-R WP 4C | **Document No:** US4C-03(NC) |
| **Ref:** Resolution 253(WRC-23), Administrative Circular CA/270 | **Date:** March 28th, 2024 |
| **Document Title:** Proposed Workplan for WP 4C’s Role as the Responsible Group for WRC-27 Agenda item 1.13 | |
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| **Purpose/Objective:** According to Administrative Circular CA/270, WP 4C has the role as the responsible group for WRC-27 Agenda item 1.13 with regards to undertaking sharing/compatibility studies and developing draft text for the CPM Report to WRC-27. Intent is to propose a timeline for the work that WP 4C will be required to undertake, in coordination with the contributing groups to this Agenda item, to develop this CPM Report text. | |
| **Abstract:**  Contribution contains a proposed workplan for WP 4C’s role as the responsible group for WRC-27 Agenda item 1.13. | |

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| Proposed Workplan for WP 4C’s Role as the Responsible Group for WRC-27 Agenda item 1.13 | |

Introduction

The recently concluded WRC-23 (20 November – 15 December, 2023, Dubai) developed and approved an agenda for WRC-27, including Agenda item 1.13 with associated Resolution 253(WRC-23) (formerly Resolution COM6/9). CPM27-1 identified WP 4C as a responsible group for this agenda item, as indicated in Administrative Circular [CA/270](https://www.itu.int/md/R00-CA-CIR-0270/en), the circular for the results of the first session of the Conference Preparatory Meeting for WRC 27 (CPM27-1), and likewise in accordance with the guidelines given in the Attachment to Doc. [4C/2](https://www.itu.int/md/R23-WP4C-C-0002/en).

Description of WRC-27 Agenda item 1.13 and hyperlink to its associated Resolution is given below in Table 1:

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| Agenda item | Topic | Resolution |
| 1.13 | 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 | [Resolution**253 (WRC‑23)**](https://www.itu.int/dms_pub/itu-r/opb/act/R-ACT-WRC.15-2023-PDF-E.pdf)  (page 567) |

Table 1: Description of Agenda item 1.13 and its associated WRC-23 Resolution for WRC-27.

The purpose of this contribution is to propose a workplan to provide structure and organization to the activities needed to be undertaken by WP 4C to complete its responsibilities with regards to Agenda item 1.13, in accordance with the deadlines which will be established by the CPM27-1 Steering Committee. The proposal in this contribution relies heavily on past precedent and practices undertaken in WP 4C with regards to preparatory activities for prior World Radiocommunication Conferences (WRCs).

WP 4C Actions with regards to WRC-27 Agenda item 1.13

The Annex 7 of Administrative Circular CA/270 presents the allocation of ITU-R preparatory work for each WRC-27 Agenda item. For Agenda item 1.13 the allocation is taken from the *resolves to invite* ITU-R and *invites* WRC-27 provisions of Resolution 253(WRC-23):

resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference

1 studies on possible allocations to the MSS in the frequency range between 694/698 MHz and 2.7 GHz, taking into account the IMT frequency arrangements addressed in the most recent version of Recommendation ITU R M.1036;

2 studies on spectrum requirements and on technical, operational and regulatory matters related to the implementation of the mobile-satellite service for direct connectivity to the IMT user equipment to complement the terrestrial IMT network coverage,

further resolves

1 to conduct studies on sharing and compatibility between incumbent services, including in adjacent frequency bands, ensuring the protection of incumbent services in accordance with the Radio Regulations;

2 to study possible technical and operational measures to ensure that the stations in the MSS do not cause harmful interference to, or claim protection from, stations operating in the mobile service,

…

invites the 2027 world radiocommunication conference

to consider, based on the results of studies, the appropriate regulatory actions, including possible new allocations to the MSS for direct connectivity between space stations and IMT user equipment to complement terrestrial IMT network coverage.

A footnote on the bottom of page 34 of CA/270 specifies the collaboration that should be undertaken between WP 4C and contributing group WP 5D for this agenda item:

WP 4C will carry out the studies on possible allocations to the MSS in the frequency bands between 694/698 MHz and 2.7 GHz provided by input contributions, including those from WP 5D based on the IMT frequency arrangements contained in the most recent version of Recommendation ITU-R M.1036.

WP 4C, in close collaboration with WP 5D, will conduct studies referred to in the *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 2.

WP 4C will carry out the studies requested in the *further* *resolves* 1 and 2. WP 5D is expected to provide studies which include regulatory considerations on the protection of terrestrial component of IMT.

WP 4C should take the lead in developing the draft CPM text by including the WP 5D’s results on the regulatory considerations on the protection of terrestrial component of IMT. To facilitate the work, the Chairs of both WPs should coordinate the schedule of WPs meetings, as appropriate, and provide a note to both WPs in this regard.

Timeline of WRC-27 Activities within Responsible and Contributing Groups

With regards to the availability of characteristics of stations deployed by the incumbent services or anticipated to be deployed and which are to be used in sharing and compatibility studies, CPM27-1 decided that it is preferable for contributing groups to submit the characteristics of the stations of the services within their terms of reference by December 31st, 2024. However, it was also acknowledged by CPM27-1 that for some WRC-27 agenda items, and in particular for Agenda items 1.7 and 1.13, that station characteristics may not be completely available by the end of 2024. In such circumstances the final deadline for the availability of station characteristics to be used sharing and compatibility studies should be the first of July 2025, with the consent of the CPM-27 Steering Committee. (Please see §2.2 of Annex 4 of CA/270.)

Table 2 represents an approximation of the schedule for the preparation of studies and CPM text for WRC-27 Agenda item 1.13. This timeline below should be taken as an estimate of the schedule for studies and preparation of draft CPM Report text, based on the example of the scheduling and timelines of past ITU-R Study periods.

**AI 1.13: MSS Allocation for Direct Connectivity Between Space Stations and IMT User Equipment**

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| --- | --- | --- | --- | --- |
| 2023  [ITU](http://www.itu.int/en/)  WRC-23 | 2024  WP 4C  WP 4C | 2025  WP 4C  WP 4C | 2026  WP 4C  WP 4C | [ITUITU](http://www.itu.int/en/)2027  CPM-27-2  WP 4C  WRC-27 |
|  | Liaison Replies to/from WP 5D (M.1036 and Regulatory Studies for Terrestrial IMT Protection)  MSS System Description to WP 5D | Working document/PDNR Sharing/Compatibility Studies  Liaison Statement/Replies to/from Contributing Groups | Development of Draft CPM Text  Review/Revise Workplan  Liaison Activity with WP 5D/Other Contributing Groups (as required) |  |

Table 2. Estimate of the WRC-27 preparatory schedule. WRC-27 is assumed to occur in Q4 2027, and CPM27-2 in between Q1/Q2 2027, but this suggested schedule is subject to revision.

Workplan for WRC-27 Agenda Item 1.13

The Annex presents a proposed Workplan for WRC-27 Agenda item 1.13. Meeting dates/deadlines for draft CPM text are subject to revision, since as indicated in the prior discussion, the CPM-27 Steering Committee has yet to officially announce the date of the CPM27-2 meeting which will establish the deadline for submission of draft CPM text from the responsible Working Parties to the Steering Committee. The format of the proposed Workplan in the Annex is based on the one used in Document 4C/333, Annex 8.

WP 4C’s workplan for this WRC-27 Agenda item should be reviewed at each WP 4C meeting, to be revised as necessary to reflect input contributions received and liaison statements/replies received from contributing groups, and also to take into account the progress of work in WP 4C.

ANNEX

CPM27-1 identified Working Party (WP) 4C as the group responsible for developing studies and draft CPM text for WRC-27 Agenda item 1.13 as follows:

to consider 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, in accordance with Resolution ​**253 (WRC-23)**;

Below is a proposed work plan for the work to be conducted for this agenda as directed by Annex 7 of CA/270. This work plan should be considered a “living document.” As such, it should be reviewed and revised, as appropriate, at subsequent Working Party 4C meetings, until the deadline for the receipt of draft CPM text by the CPM Chapter Rapporteurs.

| Working Party 4C meetings | Work plan |
| --- | --- |
| WP 4C Meeting  24 -30 April 2024 | – Establish a detailed draft work plan for this agenda item to be considered at subsequent meetings of WP 4C.  – Establish a working document [towards a draft new report] [AI 1.13 sharing and compatibility studies]  – Establish a working document on the MSS characteristics to be used in AI 1.13 sharing studies  – Develop liaison statements to ITU-R contributing groups to request characteristics of the existing services for the sharing and compatibility studies.  – Consider liaison statement from WP 5D, Doc. 4C/3, and prepare a liaison reply. |
| WP 4C Meeting  16 – 22 October 2024 | – Continue development of working document [towards a draft new report] [AI 1.13 sharing and compatibility studies], based on input contributions received  – Establish or continue development of working document on the MSS characteristics to be used in AI 1.13 sharing studies, based on input contributions received.  – Consider liaison replies received from contributing groups and prepare further liaison replies as needed, including to WP 5D.  – Establish working document on characteristics of incumbent systems to be used in AI 1.13 sharing studies.  – Revise the work plan if necessary. |
| 1st WP 4С meeting of  of 2025 | – Continue development of working document [towards a draft new report] [AI 1.13 sharing and compatibility studies], based on input contributions received  – Continue/finalize development of working document on the MSS characteristics to be used in AI 1.13 sharing studies, based on input contributions received.  – Establish the outline and working document of the draft CPM Report text  – Liaison the most recent version of the sharing studies and CPM text for review by WP5D.  – Finalize development of working document on characteristics of incumbent systems to be used in AI 1.13 sharing studies.   * Consider any liaison replies received from other contributing groups and prepare any further liaison replies required.   – Revise the work plan if necessary. |
| 2nd WP 4С meeting of  2025 | – Continue development of working document [towards a draft new report] [AI 1.13 sharing and compatibility studies], based on input contributions received  – Liaison the most recent version of the sharing studies and CPM text for review by WP5D.   * Consider liaison replies received from other contributing groups and prepare any necessary replies.   – Continue development of the draft CPM Report text.  – Revise the work plan if necessary. |
| 1st WP 4С meeting of 2026 | – Continue development of working document [ towards a draft new report] [AI 1.13 sharing and compatibility studies], based on input contributions received   * Liaison the most recent version of the sharing studies and CPM text for review by WP5D.   – Consider any liaison replies received from other contributing groups and prepare any necessary replies.  – Continue development of the draft CPM Report text.  – Revise the work plan if necessary. |
| 2nd WP 4С meeting of 2026 | – Continue development of working document [towards a draft new report] [AI 1.13 sharing and compatibility studies], based on input contributions received.   * Incorporate WP 5D comments regarding the protection of terrestrial IMT into the draft CPM text.   – Consider any liaison replies received from other contributing groups and prepare any necessary replies.  – Finalized the draft CPM Report text and send to the CPM Chapter Rapporteur.  – Revise the work plan if necessary. |
| 1st WP 4С meeting of 2027 | – Finalize the PDN ITU-R Report, if necessary.  – Send the relevant draft new Reports to Study Group 4 for adoption, as appropriate. |