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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | | A black background with a red green and blue line  Description automatically generated |
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|  | | **Doc. CPG(23)060 ANNEX V-22D2** | |
| PLENARY MEETING | | **Addendum 5 to Document XXXX(Add.22)-E** | |
|  | | **3 August 2023** | |
|  | | **Original: English** | |
|  | | | |
| European Common Proposals | | | |
| Proposals for the work of the conference | | | |
|  | | | |
| Agenda item 7(D2) | | | |

7 to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution **86** **(Rev.WRC‑07)**, in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;

7(D2) Topic D2 - New RR Appendix **4** parameters for Recommendation ITU-R S.1503 updates

Introduction

WRC-23 agenda item 7 Topic D2 addresses modification of RR Appendix **4** data items to support implementation of a revision to Recommendation ITU-R S.1503-3.

The ITU-R Study Group 4 meeting on the 7th of July 2023 agreed a revision to Recommendation ITU-R S.1503-3 titled “Functional description to be used in developing software tools for determining conformity of non-geostationary-satellite orbit fixed-satellite service systems or networks with limits contained in Article **22** of the Radio Regulations” sent for formal adoption and approval. Some of the changes in this revision require additional or modified RR Appendix **4** data items in order to be implemented in practice.

Proposals

APPENDIX 4 (REV.WRC‑19)

Consolidated list and tables of characteristics for use in the  
application of the procedures of Chapter III

ANNEX 2

Characteristics of satellite networks, earth stations  
or radio astronomy stations    (Rev.WRC‑12)

Footnotes to Tables A, B, C and D

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**TABLE A**

GENERAL CHARACTERISTICS OF THE SATELLITE NETWORK OR SYSTEM,  
EARTH STATION OR RADIO ASTRONOMY STATION     (Rev.WRC‑23)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Items in Appendix** | ***A \_ GENERAL CHARACTERISTICS OF THE SATELLITE NETWORK OR SYSTEM, EARTH STATION OR RADIO ASTRONOMY STATION*** | **Advance publication of a geostationary- satellite network** | **Advance publication of a non-geostationary-satellite network or system subject to coordination under Section II  of Article 9** | **Advance publication of a non-geostationary-satellite network or system not subject to coordination under Section II  of Article 9** | **Notification or coordination of a geostationary-satellite network (including space operation functions under Article 2A of Appendices 30 or 30A)** | **Notification or coordination of a non-geostationary-satellite network or system** | **Notification or coordination of an earth station (including notification under  Appendices 30A or 30B)** | **Notice for a satellite network in the broadcasting-satellite service under  Appendix 30 (Articles 4 and 5)** | **Notice for a satellite network  (feeder-link) under Appendix 30A  (Articles 4 and 5)** | **Notice for a satellite network in the fixed- satellite service under Appendix 30B  (Articles 6 and 8)** | **Items in Appendix** | **Radio astronomy** |
| … | … | … | … | … | **…** | **…** | **…** | **…** | **…** | **…** | … | **…** |
| **A.14** | **FOR STATIONS OPERATING IN A FREQUENCY BAND SUBJECT TO Nos. 22.5C, 22.5D, 22.5F OR 22.5L: SPECTRUM MASKS** |  | | | | | | | | | **A.14** |  |
| … | … | … | … | … | **…** | **…** | **…** | **…** | **…** | **…** | … | **…** |
| A.14.b.6 | the mask pattern defined in terms of the power in the reference bandwidth as a function of latitude and the off-axis angle between the non-geostationary earth station boresight line and the line from the non-geostationary earth station to a point on the GSO arc or as a function of latitude, the non-geostationary earth station pointing angles (azimuth, elevation) and the difference in longitude between the non-geostationary earth station and a point on the geostationary arc |  |  |  |  | **X** |  |  |  |  | A.14.b.6 |  |
| … | … | … | … | … | **…** | **…** | **…** | **…** | **…** | **…** | … | **…** |
| A.14.c.4 | the type of mask, among one of the following types: (Earth-based exclusion zone angle, difference in longitude, latitude) or (satellite azimuth, satellite elevation, latitude) |  |  |  |  | **X** |  |  |  |  | A.14.c.4 |  |
| … | … | … | … | … | **…** | **…** | **…** | **…** | **…** | **…** | … | **…** |
| A.14.d | **For each set of non-geostationary-satellite system operating parameters**  to be provided, if A.4.b.6*bis* indicates the use of an extended set of operating parameters  *Note* – There could be different sets of parameters at different frequency bands, but only one set of operating parameters for any frequency band used by the non-geostationary-satellite system |  |  |  |  |  |  |  |  |  | A.14.d |  |
| … | … | … | … | … | **…** | **…** | **…** | **…** | **…** | **…** | … | **…** |
| A.14.d.x1 | the minimum angle in degrees at the surface of the Earth between the lines to any two active non-GSO satellites. Assumed to be zero if not provided. Note: Can only be specified if the minimum track duration in A.14.d.8 is set to zero |  |  |  |  | **O** |  |  |  |  | A.14.d.x1 |  |
| A.14.d.x2 | the minimum angle in degrees at the non-GSO satellite between the lines to any two active non-GSO earth stations. Assumed to be zero if not provided. |  |  |  |  | **O** |  |  |  |  | A.14.d.x2 |  |
| A.14.d.x3 | the maximum number of non-geostationary earth stations tracked co-frequency by a non-geostationary satellite. If a value is not provided, it is assumed that the maximum number of earth stations tracked co-frequency by a non-geostationary satellite is equal to the number of earth stations created for the epfd↑ run |  |  |  |  | **O** |  |  |  |  | A.14.d.x3 |  |
| … | … | … | … | … | **…** | **…** | **…** | **…** | **…** | **…** | … | **…** |