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|  **World Radiocommunication Conference (WRC-19)Sharm el-Sheikh, Egypt, 28 October – 22 November 2019** |  |
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| PLENARY MEETING | **Addendum 18 toDocument 16-E** |
|  | **9 October 2019** |
|  | **Original: English** |
|  |
| European Common Proposals |
| Proposals for the work of the conference |
|  |
| Agenda item 4 |

4 in accordance with Resolution **95 (Rev.WRC-07)**, to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;

Introduction

The review of Resolutions and Recommendations of previous Conferences is a standing agenda item. Based on membership proposals, WRC-19 shall conclude on whether there is a need for any modification or suppression of Resolutions or Recommendations from previous Conferences.

CEPT reviewed Resolutions and Recommendations of previous conferences and concluded to make proposals for modification, suppression or reasoned decision to abstain from changes as follows.

Proposals

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations
(See No. 2.1)

MOD EUR/16A18/1

5.134 The use of the bands 5 900-5 950 kHz, 7 300-7 350 kHz, 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050‑12 100 kHz, 13 570-13 600 kHz, 13 800-13 870 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900‑19 020 kHz by the broadcasting service is subject to the application of the procedure of Article 12. Administrations are encouraged to use these bands to facilitate the introduction of digitally modulated emissions in accordance with the provisions of Resolution **517 (Rev.WRC‑15)**.     (WRC-19)

**Reasons:** Resolution **517** was revised by WRC-15.

MOD EUR/16A18/2

5.516B The following bands are identified for use by high-density applications in the fixed-satellite service:

 17.3-17.7 GHz (space-to-Earth) in Region 1,

 18.3-19.3 GHz (space-to-Earth) in Region 2,

 19.7-20.2 GHz (space-to-Earth) in all Regions,

 39.5-40 GHz (space-to-Earth) in Region 1,

 40-40.5 GHz (space-to-Earth) in all Regions,

 40.5-42 GHz (space-to-Earth) in Region 2,

 47.5-47.9 GHz (space-to-Earth) in Region 1,

 48.2-48.54 GHz (space-to-Earth) in Region 1,

 49.44-50.2 GHz (space-to-Earth) in Region 1,

 and

 27.5-27.82 GHz (Earth-to-space) in Region 1,

 28.35-28.45 GHz (Earth-to-space) in Region 2,

 28.45-28.94 GHz (Earth-to-space) in all Regions,

 28.94-29.1 GHz (Earth-to-space) in Region 2 and 3,

 29.25-29.46 GHz (Earth-to-space) in Region 2,

 29.46-30 GHz (Earth-to-space) in all Regions,

 48.2-50.2 GHz (Earth-to-space) in Region 2.

 This identification does not preclude the use of these bands by other fixed-satellite service applications or by other services to which these bands are allocated on a co-primary basis and does not establish priority in these Radio Regulations among users of the bands. Administrations should take this into account when considering regulatory provisions in relation to these bands. See Resolution **143 (Rev.WRC‑19)**     (WRC-19)

**Reasons:** Resolution **143** is proposed for modifications.

ARTICLE 22

Space services1

Section II − Control of interference to geostationary-satellite systems

MOD EUR/16A18/3

22.5CA 2) The limits given in Tables **22-1A** to **22-1E** may be exceeded on the territory of any country whose administration has so agreed (see also Resolution **140 Rev.WRC‑15)**).     (WRC‑19)

**Reasons:** Resolution **140** was revised by WRC-15.

MOD EUR/16A18/4

**22.5K** 8) Administrations operating or planning to operate non-geostationary-satellite systems in the fixed-satellite service in the bands listed in Tables **22-1A** to **22-1D** of No. **22.5C** will apply the provisions of Resolution **76 (Rev.WRC-15)** to ensure that the actual aggregate interference into geostationary fixed-satellite service and geostationary broadcasting-satellite service networks caused by such systems operating co-frequency in these frequency bands does not exceed the aggregate power levels shown in Tables **1A** to **1D** of Resolution **76 (Rev.WRC-15)** In the event that an administration operating a geostationary-satellite network in conformity with the Radio Regulations identifies equivalent power flux-density levels from non- geostationary-satellite systems in the fixed-satellite service which may be in excess of the aggregate limits contained in Tables **1A** to **1D** of Resolution **76** **(Rev.WRC-15)**, the administrations responsible for the non-geostationary-satellite systems in the fixed-satellite service will apply the provisions contained in *resolves* 2 of Resolution **76**  **(Rev.WRC‑15)**.     (WRC‑19)

**Reasons:** Resolution **76** was revised by WRC-15.

ARTICLE 59

Entry into force and provisional application
of the Radio Regulations    (WRC‑12)

MOD EUR/16A18/5

59.14 – the revised provisions for which other effective dates of application are stipulated in Resolution:

      (WRC‑19)

**Reasons:** Objective reached by publication of Radio Regulations 2016.

APPENDIX 11 (REV.WRC‑03)

System specifications for double-sideband (DSB), single-sideband (SSB) and digitally modulated emissions in the HF broadcasting service

PART C – Digital system     (WRC‑03)

# 1 System parameters

MOD EUR/16A18/6

## 1.1 Channel spacing

The initial spacing for digitally modulated emissions shall be 10 kHz. However, interleaved channels with a separation of 5 kHz may be used in accordance with the appropriate protection criteria appearing in Resolution **543 (Rev.WRC‑19)**, provided that the interleaved emission is not to the same geographical area as either of the emissions between which it is interleaved.     (WRC‑19)

**Reasons:** Resolution **543** is to be revised by WRC-19.

# 2 Emission characteristics

MOD EUR/16A18/7

## 2.5 RF protection ratio values

The protection ratio values for analogue and digital emissions for co-channel and adjacent channel conditions shall be in accordance with Resolution **543 (Rev.WRC‑19)** as provisional RF protection ratio values subject to revision or confirmation by a future competent conference.     (WRC‑19)

**Reasons:** Resolution **543** is to be revised by WRC-19.

SUP EUR/16A18/8

RESOLUTION 31 (WRC-15)

Transitional measures for the elimination of advance publication filings
by administrations for frequency assignments to satellite networks
and systems subject to Section II of Article 9

**Reasons:** This Resolution has been implemented.

MOD EUR/16A18/9

RESOLUTION 72 (Rev.WRC‑19)

World and regional preparations for world radiocommunication conferences

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

further resolves to instruct the Director of the Radiocommunication Bureau

...

2 pursuant to the most recent version of Resolution ITU-R 2 of the Radiocommunication Assembly on the CPM, to assist in ensuring that overview presentations of the chapters of the CPM Report will be made by the CPM management at an early stage in the CPM session, as part of the regularly scheduled meetings, in order to help all participants understand the contents of the CPM Report;

...

**Reasons:** Resolution ITU-R 2-5 was updated.

MOD EUR/16A18/10#50358

RESOLUTION 95 (Rev.WRC-19)

General review of the Resolutions and Recommendations of world administrative radio conferences and world radiocommunication conferences

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

resolves to invite future competent world radiocommunication conferences

1 to review the Resolutions and Recommendations of previous conferences that are related to the agenda of the Conference with a view to their possible revision, replacement or abrogation and to take appropriate action;

2 to review the Resolutions and Recommendations of previous conferences that are not related to any agenda item of the Conference with a view to:

– abrogating those Resolutions and Recommendations that have served their purpose or have become no longer necessary;

– reviewing the need for those Resolutions and Recommendations, or parts thereof, requesting ITU-R studies on which no progress has been made during the last two periods between conferences;

– updating and modifying Resolutions and Recommendations, or parts thereof that have become out of date, and to correct obvious omissions, inconsistencies, ambiguities or editorial errors and effect any necessary alignment;

3 to include a standing agenda item which would consider the examination of Resolutions and Recommendations referred to in *resolves*2 of this Resolution;

4 at the beginning of the Conference, to determine which committee within the Conference has the primary responsibility to review each of the Resolutions and Recommendations referred to in *resolves*1 and 2 above,

...

invites administrations

to submit contributions on the implementation of this Resolution to the second session of the CPM,

invites the Conference Preparatory Meeting

to include, in its Report, the results of the general review of the Resolutions and Recommendations of previous conferences, based on the contributions by administrations to the second session of the CPM and taking into account the above-mentioned Report of the Director, in order to facilitate the follow-up by the Conference.

**Reasons:** Resolution **95 (Rev.WRC-07)** relates to the review by a WRC of all Resolutions and Recommendations of previous conferences. Maintaining *resolves* 1 and 2 is necessary in order to ensure clear consistency of the scope of work under this Resolution, taking into account also that *resolves* 3 of Resolution **95 (Rev.WRC-07)** invites a WRC to determine, at its beginning, which committee within the conference has the primary responsibility to review each of the Resolutions and Recommendations.

A new *resolves* is also proposed in order to invite WRCs to include a standing agenda item which would consider the examination of Resolutions and Recommendations referred to in *resolves* 2 of Resolution **95 (Rev.WRC-07)**. This proposal allows providing a clear basis for standing agenda item 4 of WRCs.

SUP EUR/16A18/11

RESOLUTION 99 (WRC-15)

Provisional application of certain provisions of the Radio Regulations
as revised by the 2015 World Radiocommunication Conference
and abrogation of certain Resolutions and Recommendations

**Reasons:** Objective reached with the publication of Radio Regulations 2016.

MOD EUR/16A18/12

RESOLUTION 143 (Rev.WRC-19)

Guidelines for the implementation of high-density applications in the fixed-satellite service in frequency bands identified for these applications

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

resolves

...

*c)* take into account the relevant technical characteristics applicable to HDFSS, as identified by ITU‑R Recommendations (e.g. Recommendations ITU‑R S.524‑9, ITU‑R S.1594-0 and ITU‑R S.1783-0);

...

**Reasons:** Recommendations ITU-R S.524-9, ITU‑R S.1594-0 and ITU‑R S.1783-0 are in force.

MOD EUR/16A18/13

RESOLUTION 344 (Rev.WRC‑19)

Management of the maritime identity numbering resource

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

noting

*a)* that the installation of digital selective calling equipment and some Inmarsat ship earth station equipment on ships participating in the Global Maritime Distress and Safety System (GMDSS) on a mandatory or voluntary basis requires the assignment of a unique nine‑digit maritime mobile service identity (MMSI);

*b)* that such equipment offers the possibility to connect with public telecommunication networks;

*c)* that only mobile-satellite systems have been able to resolve the various billing, routeing, charging and signalling requirements needed to provide full two-way automatic connectivity between ships and the international public correspondence service;

*d)* that the automatic identification system (AIS) and its related systems require MMSI or other maritime identities;

*e)* that radios capable of digital selective calling and intended to be used on non‑SOLAS ships, require maritime identities;

*f)* that the first three digits of a ship station MMSI form the maritime identification digits (MID), which denote the ship’s administration,

considering

*a)* that digital selective calling distress alerts require valid identities recognizable by search and rescue authorities in order to ensure a timely response;

*b)* that AIS and its related systems require valid identities recognizable by other ships and authorities for safety of navigation and search and rescue operations;

*c)* that Recommendation ITU‑R M.585 contains guidance for the assignment and use of maritime identities, such as MMSIs and other maritime identities,

recognizing

*a)* that even domestic ships which install the present generation of ship earth stations will require the assignment of MMSI numbers from those numbers originally intended for ships communicating worldwide, further depleting the resource;

*b)* that mobile-satellite systems offering access to public telecommunication networks and participating in the GMDSS employ a free-form numbering system that need not include any part of the MMSI;

*c)* that future growth of AIS and its related systems will require further resources of MMSI and other maritime identities,

noting further

*a)* that ITU‑R is solely responsible for managing the MMSI and MID numbering resources;

*b)* that ITU‑R can monitor the status of the MMSI resource, through regular reviews of the spare capacity available within the MIDs already in use, and the availability of spare MIDs, taking account of regional variations;

*c)* that the ITU-R, as a part of review of MMSI numbering resources, adopted Recommendation ITU-R M.585-8 in 2019, removing a provision within the MMSI numbering scheme that set aside 3 trailing zeros for some categories of mobile satellite service systems participating in the GMDSS to facilitate the shore-to-ship routing of calls. The provision is no longer necessary and its removal has allowed for the release of reserved MMSI numbering resources,

...

**Reasons:** This modification reflects developments of the satellite communication (e.g. Inmarsat-B service was discontinued as from 31 December 2016 and Inmarsat-M service discontinued on 31 December 2017) and the update of Recommendation ITU-R M.585-7 removing a provision within the MMSI numbering scheme that set aside 3 trailing zeros for some categories of mobile satellite service systems participating in the GMDSS to facilitate the shore-to-ship routing of calls.

MOD EUR/16A18/14

RESOLUTION 543 (WRC-19)

Provisional RF protection ratio values for analogue and digitally modulated emissions in the HF broadcasting service

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

resolves

1 that digital modulation in accordance with Resolution **517 (Rev.WRC‑15)** may be used in any of the HF bands allocated to the broadcasting service; this accommodation has to be made with the appropriate amounts of protection given to both analogue and digital emissions as described in the Annex to this Resolution;

...

invites ITU‑R

1 to continue studies on digital techniques in HF broadcasting with the purpose to revise the RF protection ratio values for analogue and digitally modulated emissions in the HF broadcasting service as described in the Annex to this Resolution.

...

**Reasons:** Resolution **517** was revised by WRC-15; *invites* *ITU-R* 2 of Resolution **543 (WRC-03)** is outdated.

SUP EUR/16A18/15

RESOLUTION 556 (WRC‑15)

Conversion of all analogue assignments in the Appendices 30 and 30A
Regions 1 and 3 Plan and List into digital assignments

**Reasons:** This Resolution has been implemented.

SUP EUR/16A18/16

RESOLUTION 641 (Rev.HFBC-87)

Use of the frequency band 7 000-7 100 kHz

**Reasons:** This Resolution has been implemented.

MOD EUR/16A18/17

RESOLUTION 647 (Rev.WRC‑19)

Radiocommunication aspects, including spectrum management guidelines,
for early warning, disaster prediction, detection, mitigation and
relief operations relating to emergencies and disasters

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

recognizing further

*a)* that ITU‑R has developed a Handbook on Emergency and Disaster Relief as well as various Reports and Recommendations relating to emergency and disaster relief operations and radiocommunication resources[[1]](#footnote-9);

...

**Reasons:** Revision proposed by ITU-R Study Group (SG) 6.

MOD EUR/16A18/18

RESOLUTION 731 (Rev.WRC‑19)

Consideration of sharing and adjacent-band compatibility
between passive and active services above 71 GHz

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

considering

...

*h)* that interference criteria for passive sensors have been developed and are given in Recommendation ITU-R RS.2017;

...

**Reasons:** Recommendation ITU-R RS.1029 was replaced by Recommendation ITU-R RS.2017.

MOD EUR/16A18/19

RESOLUTION 748 (REV.WRC‑19)

Compatibility between the aeronautical mobile (R) service and the fixed-satellite service (Earth-to-space) in the frequency band 5 091-5 150 MHz

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

resolves

...

3 that, in part to meet the provisions of No. **4.10**, the coordination distance with respect to stations in the FSS operating in the frequency band 5 091-5 150 MHz shall be based on ensuring that the signal received at the AM(R)S station from the FSS transmitter does not exceed −143 dB(W/MHz), where the required basic transmission loss shall be determined using the methods described in Recommendations ITU‑R P.525‑4 and ITU‑R P.526‑14,

...

**Reasons:** Recommendations ITU‑R P.525 and ITU‑R P.526 have been revised.

SUP EUR/16A18/20

RESOLUTION 809 (WRC‑15)

Agenda for the 2019 World Radiocommunication Conference

**Reasons:** Objective was reached.

SUP EUR/16A18/21

RESOLUTION 810 (WRC‑15)

Preliminary agenda for the 2023 World Radiocommunication Conference

**Reasons:** This Resolution will be replaced by a new Resolution.

MOD EUR/16A18/22

RECOMMENDATION 316 (Rev.WRC-19)

Use of ship earth stations within harbours and other waters
under national jurisdiction

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

recognizing

that permitting the use of ship earth stations within harbours and other waters under national jurisdiction belongs to the sovereign right of countries concerned,

recalling

that a number of frequency bands, have been allocated to the mobile-satellite service and maritime mobile-satellite service and can be used for maritime related communications via ship earth stations,

considering

*a)* that the maritime mobile-satellite service, which is at present in operation worldwide, has improved maritime communications greatly and has contributed much to the safety and efficiency of ship navigation, and that fostering and developing the use of that service in future will contribute further to their improvement;

*b)* that the maritime mobile-satellite service plays an important role in the Global Maritime Distress and Safety System (GMDSS),

recommends

that all administrations should permit, to the extent possible, ship earth stations to operate within harbours and other waters under national jurisdiction, in the frequency bands used for the GMDSS.

**Reasons:** The Recommendation is updated to reflect development regarding systems which operate in GMDSS. Removing references to specific frequency bands allows expanding the scope of the Recommendation to all satellite systems that are included or which may be included in the GMDSS in the future. This will allow avoiding re-reviewing of the Recommendation in the future when new satellite systems used for the GMDSS appear.

SUP EUR/16A18/23

RESOLUTION 33 (Rev.WRC‑15)

Bringing into use of space stations in the broadcasting-satellite service,
prior to the entry into force of agreements and associated plans for the broadcasting-satellite service

**Reasons:** This Resolution can be deleted as the processing of filings under this Resolution was completed prior to WRC-07.

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations
(See No. 2.1)

MOD EUR/16A18/24

**5.396** Terrestrial broadcasting stations of the complementary terrestrial sound broadcasting service in the band 2 310-2 360 MHz operating in accordance with No. **5.393** shall be subject to bilateral coordination with neighbouring countries prior to their bringing into use.

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/25

ARTICLE 9

Procedure for effecting coordination with or obtaining agreement of other administrations1, 2, 3, 4, 5, 6, 7, 9    (WRC‑19)

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

SUP EUR/16A18/26

8 A.9.7

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/27

ARTICLE 11

Notification and recording of frequency
assignments1, 2, 3, 4, 5, 7, 8    (WRC‑-19)

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

SUP EUR/16A18/28

6 A.11.5

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

APPENDIX 30 (REV.WRC‑15)[[2]](#footnote-12)\*

Provisions for all services and associated Plans and List[[3]](#footnote-13)1 for
the broadcasting-satellite service in the frequency bands
11.7-12.2 GHz (in Region 3), 11.7-12.5 GHz (in Region 1)
 and 12.2-12.7 GHz (in Region 2)    (WRC‑03)

ARTICLE 4     (Rev.WRC‑15)

Procedures for modifications to the Region 2 Plan or
for additional uses in Regions 1 and 3[[4]](#footnote-14)3

## 4.2 Provisions applicable to Region 2

MOD EUR/16A18/29

4.2.3 An administration proposing a modification to the characteristics of a frequency assignment in conformity with the Region 2 Plan, or the inclusion of a new frequency assignment in that Plan, shall seek the agreement of those administrations:

...

*f* *)* having a frequency assignment to a space station in the broadcasting-satellite service in the band 12.5-12.7 GHz in Region 3 with a necessary bandwidth, any portion of which falls within the necessary bandwidth of the proposed assignment, and:

– which is recorded in the Master Register; *or*

– for which complete coordination information has been received by the Bureau for coordination under No. **9.7** or under § 7.1 of Article 7;

*...*

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

ARTICLE 7     (Rev.WRC‑03)

Coordination, notification and recording in the Master International
Frequency Register of frequency assignments to stations in the fixed-satellite service (space-to-Earth) in the bands 11.7-12.2 GHz (in Region 2),
12.2-12.7 GHz (in Region 3) and 12.5-12.7 GHz (in Region 1), and to stations
in the broadcasting-satellite service in the band 12.5-12.7 GHz (in Region 3)
when frequency assignments to broadcasting-satellite stations in
the bands 11.7-12.5 GHz in Region 1, 12.2-12.7 GHz in Region 2
and 11.7-12.2 GHz in Region 3 are involved

MOD EUR/16A18/30

7.1 The provisions of No. **9.7**and the associated provisions under Articles **9** and **11** are applicable in respect of frequency assignments to broadcasting-satellite stations in the bands 11.7‑12.5 GHz in Region 1, 12.2-12.7 GHz in Region 2 and 11.7-12.2 GHz in Region 3:

*a)* to transmitting space stations in the fixed-satellite service in the bands 11.7-12.2 GHz (in Region 2), 12.2-12.7 GHz (in Region 3) and 12.5-12.7 GHz (in Region 1); and

*b)* to transmitting space stations in the broadcasting-satellite service in the band 12.5‑12.7 GHz (in Region 3).     (WRC‑19)

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

APPENDIX 30A (REV.WRC‑15)[[5]](#footnote-17)\*

Provisions and associated Plans and List[[6]](#footnote-18)1 for feeder links for the broadcasting-satellite service (11.7-12.5 GHz in Region 1, 12.2-12.7 GHz
in Region 2 and 11.7-12.2 GHz in Region 3) in the frequency bands
14.5-14.8 GHz[[7]](#footnote-19)2 and 17.3-18.1 GHz in Regions 1 and 3,
and 17.3-17.8 GHz in Region 2     (WRC‑03)

ARTICLE 7     (Rev.WRC‑15)

Coordination, notification and recording in the Master International
Frequency Register of frequency assignments to stations in the fixed-satellite service (space-to-Earth) in Region 1 in the frequency band 17.3-18.1 GHz and
in Regions 2 and 3 in the frequency band 17.7-18.1 GHz, to stations in the fixed‑satellite service (Earth-to-space) in Region 2 in the frequency band 17.8‑18.1 GHz, to stations in the fixed-satellite service (Earth-to-space) in countries listed in Resolution 163 (WRC‑15) in the frequency band 14.5‑14.75 GHz and in countries listed in Resolution 164 (WRC‑15) in the frequency band 14.5-14.8 GHz where those stations are not for feeder links for the broadcasting-satellite service, and to stations in the broadcasting-satellite service in Region 2 in the frequency band 17.3-17.8 GHz when frequency assignments to feeder links for broadcasting-satellite stations in the frequency bands 14.5-14.8 GHz and 17.3-18.1 GHz in Regions 1 and 3 or
in the band 17.3-17.8 GHz in Region 2 are involved

Section I – Coordination of transmitting space or earth stations in the fixed-satellite
service or transmitting space stations in the broadcasting-satellite service
with assignments to broadcasting-satellite service feeder links

MOD EUR/16A18/31

7.1 The provisions of No. 9.7and the associated provisions under Articles 9 and 11 are applicable to transmitting space stations in the fixed-satellite service in Region 1 in the frequency band 17.3-18.1 GHz, to transmitting space stations in the fixed-satellite service in Regions 2 and 3 in the frequency band 17.7-18.1 GHz, to transmitting earth stations in the fixed-satellite service in Region 2 in the frequency band 17.8‑18.1 GHz, to transmitting earth stations in the fixed-satellite service in countries listed in Resolution **163 (WRC‑15)** in the frequency band 14.5-14.75 GHz and in countries listed in Resolution **164 (WRC‑15)** in the frequency band 14.5-14.8 GHz where those stations are not for feeder links for the broadcasting-satellite service, and to transmitting space stations in the broadcasting-satellite service in Region 2 in the frequency band 17.3-17.8 GHz.     (WRC‑-19)

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/32

RESOLUTION 34 (Rev.WRC‑19)

Establishment of the broadcasting-satellite service in Region 3
in the 12.5‑12.75 GHz frequency band and sharing with space and
terrestrial services in Regions 1, 2 and 3

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

resolves

1 that, until such time as a plan may be established for the broadcasting-satellite service in the frequency band 12.5-12.75 GHz in Region 3, the relevant provisions of Article **9** shall continue to apply to the coordination between stations in the broadcasting-satellite service in Region 3 and:

*a)* space stations in the broadcasting-satellite and fixed-satellite services in Regions 1, 2 and 3;

*b)* terrestrial stations in Regions 1, 2 and 3;

...

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/33

RESOLUTION 42 (Rev.WRC‑-19)

Use of interim systems in Region 2 in the broadcasting-satellite and
fixed-satellite (feeder-link) services in Region 2 for the frequency bands
covered by Appendices 30 and 30A

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

ANNEX TO RESOLUTION 42 (Rev.WRC‑19)

1 An administration or a group of administrations in Region 2 may, after successful application of the procedure contained in this Annex and with the agreement of the affected administrations, use an interim system during a specified period not exceeding ten years in order:

...

# 5 Administrations are considered to be affected as follows:

## 5.1 For an interim system in the broadcasting-satellite service

...

*f)* an administration of Region 3 is considered to be affected if it has a frequency assignment to a space station in the broadcasting-satellite service in the frequency band 12.5‑12.7 GHz with a necessary bandwidth any portion of which falls within the necessary bandwidth of the proposed assignment, and which:

– is recorded in the Master Register; *or*

– has been coordinated or is being coordinated under the provisions of Articles **9** to **14**; *or*

– appears in a Region 3 Plan to be adopted at a future radiocommunication conference, taking account of modifications which may be introduced subsequently in accordance with the Final Acts of that conference,

 and the limits of § 3, Annex 1 to Appendix **30** are exceeded.

...

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/34

RESOLUTION 49[[8]](#footnote-21)1 (Rev.WRC‑19)

Administrative due diligence applicable to some
satellite radiocommunication services

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

ANNEX 1 TO RESOLUTION 49 (Rev.WRC‑19)

1 Any satellite network or satellite system of the fixed-satellite service, mobile-satellite service or broadcasting-satellite service with frequency assignments that are subject to coordination under Nos. **9.7**, **9.11**, **9.12**, **9.12A** and **9.13** shall be subject to these procedures.

...

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/35

RESOLUTION 507 (Rev.WRC‑19)

Establishment of agreements and associated plans for
the broadcasting-satellite service[[9]](#footnote-23)1

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

resolves

1 that stations in the broadcasting-satellite service shall be established and operated in accordance with agreements and associated plans adopted by world or regional radiocommunication conferences, as the case may be, in which all the administrations concerned and the administrations whose services are liable to be affected may participate;

2 that during the period before the entry into force of such agreements and associated plans the administrations and the Radiocommunication Bureau shall apply the procedure contained in Articles **9** to **14**,

...

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/36

RESOLUTION 528 (Rev.WRC-19)

Introduction of the broadcasting-satellite service (sound) systems and complementary terrestrial broadcasting in the frequency bands allocated to these services within the range 1-3 GHz

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

...

resolves

...

3 that in the interim period, broadcasting-satellite systems may only be introduced within the upper 25 MHz of the appropriate frequency band in accordance with the procedures contained in Articles **9** to **14**, as appropriate. The complementary terrestrial service may be introduced during this interim period subject to coordination with administrations whose services may be affected;

...

**Reasons:** Consequential to the suppression of Resolution **33 (Rev.WRC-15)**.

MOD EUR/16A18/37

RESOLUTION 85 (Rev.WRC‑19)

Application of Article 22 of the Radio Regulations to the protection of geostationary fixed-satellite service and broadcasting-satellite service networks from non-geostationary fixed-satellite service systems

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

considering

*a)* that WRC-2000 adopted, in Article **22**, single-entry limits applicable to non‑geostationary (non-GSO) fixed-satellite service (FSS) systems in certain parts of the frequency range 10.7-30 GHz to protect geostationary-satellite (GSO) networks operating in the same frequency bands;

*b)* that, taking into account Nos. **22.5H** and **22.5I**, wherever the limits referred to in *considering a)* are exceeded by a non-GSO FSS system to which the limits apply without the agreement of the concerned administrations, this constitutes a violation of the obligations under No. **22.2**;

*c)* that ITU‑R developed Recommendation ITU‑R S.1503 to provide a functional description to be used in developing epfd validation software for determining the conformity of non‑GSO FSS systems with limits contained in Article **22**;

*d)* that ITU R continues to update Recommendation ITU R S.1503 for the epfd validation software to adequately model planned non-GSO FSS systems;

*e)* that there is currently epfd validation software available to the Radiocommunication Bureau corresponding to Recommendation ITU‑R S.1503-2;

*f)* that there might be planned non-GSO FSS systems which cannot be adequately modelled by the latest epfd validation software available to the Bureau,

resolves

1 that when the epfd validation software available to the Bureau for epfd examinations cannot adequately model a non-geostationary satellite FSS system, the notifying administration of the system shall send to the Bureau a commitment that the system complies with the limits given in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3** as well as detailed technical description including the results of epfd calculation using existing epfd validation software, the results of epfd calculation using simulation software with adequate modelling of the non-geostationary satellite FSS system and identification of particular areas of the latest version of Recommendation ITU-R S.1503 that need to be reviewed and possibly revised;

2 that the Bureau shall issue a qualified favourable finding under No. **9.35** with respect to the limits contained in Tables **22‑1A**, **22‑1B**, **22‑1C**, **22‑1D**, **22‑1E**, **22‑2** and **22‑3**, if *resolves*1 is satisfied, otherwise the non-GSO FSS system will receive a definitive unfavourable finding;

3 that the Bureau shall determine coordination requirements between GSO FSS earth stations and non-GSO FSS systems under Nos. **9.7A** and **9.7B** based on bandwidth overlap, and GSO FSS earth station antenna maximum isotropic gain, *G*/*T* and emission bandwidth;

4 that the Bureau shall review the qualified favourable finding established under *resolves*2 and the coordination requirement established under *resolves*3 once the epfd validation software adequately modelling the non-geostationary satellite FSS systems is available to the Bureau.

**Reasons:** This Resolution is modified because although the Bureau now has software to assess non-GSO satellite networks’ compliance with the epfd limits, that software may not properly characterise all non-GSO systems.

SUP EUR/16A18/38

RESOLUTION 555 (rev.WRC‑15)

Additional regulatory provisions for broadcasting-satellite service
networks in the frequency band 21.4-22 GHz in Regions 1 and 3 for
the enhancement of equitable access to this frequency band

**Reasons:** This Resolution is not needed anymore.

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1. A list of relevant ITU-R texts may be accessed at <http://www.itu.int/ITU-R/go/res647> [↑](#footnote-ref-9)
2. \* The expression “frequency assignment to a space station”, wherever it appears in this Appendix, shall be understood to refer to a frequency assignment associated with a given orbital position. See also Annex 7 for the orbital limitations.     (WRC‑2000) [↑](#footnote-ref-12)
3. 1 The Regions 1 and 3 List of additional uses is annexed to the Master International Frequency Register (see Resolution **542 (WRC‑2000)**\*\*).     (WRC‑03)

 \*\* *Note by the Secretariat*: This Resolution was abrogated by WRC‑03.

*Note by the Secretariat*: Reference to an Article with the number in roman is referring to an Article in this Appendix. [↑](#footnote-ref-13)
4. 3 The provisions of Resolution **49 (Rev.WRC‑15)** apply.     (WRC‑15) [↑](#footnote-ref-14)
5. \* The expression “frequency assignment to a space station”, wherever it appears in this Appendix, shall be understood to refer to a frequency assignment associated with a given orbital position.     (WRC‑03) [↑](#footnote-ref-17)
6. 1 The Regions 1 and 3 feeder-link List of additional uses is annexed to the Master International Frequency Register (see Resolution **542 (WRC‑2000**)\*\*).     (WRC‑03)

 \*\* *Note by the Secretariat*: This Resolution was abrogated by WRC‑03. [↑](#footnote-ref-18)
7. 2 This use of the band 14.5-14.8 GHz is reserved for countries outside Europe.

*Note by the Secretariat*: Reference to an Article with the number in roman is referring to an Article in this Appendix. [↑](#footnote-ref-19)
8. 1 This Resolution does not apply to satellite networks or satellite systems of the broadcasting-satellite service in the frequency band 21.4-22 GHz in Regions 1 and 3. [↑](#footnote-ref-21)
9. 1 This Resolution does not apply to the frequency band 21.4-22 GHz. [↑](#footnote-ref-23)