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# Svenska ståndpunkter WRC-23

v 2.1

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## Introduktion

Denna PM sammanfattar de svenska ståndpunkterna för ITU:s världsradiokonferens 2023 (WRC-23).

Förslag på svenska ståndpunkter för huvuddelen av agendapunkterna har tagits fram i enlighet med processen för framtagning av ståndpunkter för WRC (se bilaga 1).

Ståndpunkter inför världsradiokonferenser utgör Sveriges och inte PTS ställningstagande i de aktuella frågorna. Ståndpunkterna ska representera och tillvarata Sveriges intressen i ITU-sammanhang. Önskemål från intressenter och organisationer måste därför vägas samman med PTS inriktning och mål för spektrumhanteringen.

Detta arbete kommer att fortgå under tiden fram till konferensen. Den av PTS 2014 antagna strategin för spektrumområdet är en viktig komponent i detta arbete. En annan viktig komponent är återkoppling från intressenterna.

Dokumentet kommer att uppdateras fram till konferensen.

## **WRC-23**

### **Tid och plats**

Nästa World Radiocommunication Conference (WRC) planeras äga rum i slutet av 2023.

Beslut om exakt tid och plats för konferensen har ännu inte tagits. Frågan kommer upp för beslut vid ITU Council 2020 [TBD].

Efter beslut i Council kommer förslaget till tid, plats och agenda att skickas till alla medlemsstater för godkännande.

I nuläget har Förenade Arabemiraten erbjudit sig att vara värd för WRC-23, men inget beslut är taget.

Det kan förväntas, baserat på den föreslagna tidpunkten för WRC-23, att CPM arrangeras i perioden mars – april 2023.

### **Agenda**

Den föreslagna agendan för WRC-23 är i enlighet med det av WRC-19 framtagna förslaget till agenda i Resolution COM6/1 (WRC19) / Resolution 811 (WRC-19) med vissa ändringar efter CPM23-1.

ITU-R tillhandahåller en bra sammanställning av agendan för WRC-23 där finns också direktlänkar till relevanta resolutioner mm för varje AI:

<https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/wrc-23-studies.aspx>

## Agendapunkter

### Generellt

Radioreglementet (RR) bör endast innehålla allokering av frekvenser för radiotjänster och inte identifiering av frekvenser för specifika tillämpningar och system. Det kan i vissa fall vara berättigat med avsteg från denna princip och att identifiera frekvenser för tillämpningar eller system i RR.

Några exempel på faktorer som bör beaktas:

- identifiering i ett frekvensband för en viss radioanvändning blir som mest betydelsefull om användningen är gränsöverskridande och efterfrågas globalt (regionalt) och att identifieringen sker på global (regional) basis
- där det snarare handlar om att finna en *tuning-range* inom vilken länder kan välja lämpliga frekvenser för att hantera nationella behov bör normalt inte leda till identifieringar (jfr. RSTT, PPDR, PMSE).
- om en identifiering av ett visst frekvensband bedöms vara av betydande värde för att tillgodose svenska nationella intressen, t.ex. för att upprätthålla svensk konkurrenskraft och kompetens inom ett visst område.

Det är också viktigt att notera att det är allokering av frekvenser för radiotjänster som regleras i RR och beslutas av WRC och inte användningen av dessa allokeringar. Varje land (antingen enskilt eller tillsammans med andra länder) kan bestämma när och hur de olika allokeringarna ska användas inom landet.

En allokering innebär inte att tillstånd för radiosändarna kommer att medges.

**AI 1**

1                    on the basis of proposals from administrations, taking account of the results of WRC 19 and the Report of the Conference Preparatory Meeting, and with due regard to the requirements of existing and future services in the frequency bands under consideration, to consider and take appropriate action in respect of the following items:

## **AI 1.1**

1.1 to consider, based on the results of the ITU R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. 5.441B in accordance with Resolution **223 (Rev.WRC-19)**;

### **Prioritet**

Hög

### **Svenska ståndpunkter**

Eventuella förändringar i frekvensbandet 4 800-4 990 MHz, inkl. No 5.441B, ska inte innebära några begränsningar eller påverkan på användning för Sveriges del, även med beaktan av sådan användning som förekommer inom ramen för svenska försvarssamarbeten.

Kommentar: Noteras bör att Ryssland är med i no. 5.441B men att PFD-gränsvärdet som ges i samma FN ej gäller för ett antal länder, bl.a. Ryssland.

### **Ansvariga grupper**

WP 5B & WP 5D, PT C

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

Onsala rymdobservatorium, FMV

### **Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF preliminary position on agenda item 1.1. The countries listed in No. 5.441B includes Russia and South Africa with radio astronomy observatories in Region 1. However, the two countries are excluded from the pfd limits review according to Resolution 223 resolves 5. CRAF keeps monitoring of the agenda item at this stage for more information.

FMV: Tillse skydd för befintlig användning, EJ stöd för relaxerade pfd-kriterier.

## **AI 1.2**

1.2 to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **245 (WRC-19)**;

### **Prioritet**

Hög vad avser banden 3 300-3 400 MHz, 6 425-7 025 MHz och 7 025-7 125 MHz. Låg vad avser övriga band (ej Region 1).

### **Svenska ståndpunkter**

Sverige kan acceptera att i Region 2 banden 3 600-3 800 MHz, 3 300-3 400 MHz och 10,0-10,5 GHz allokeras för mobila tjänster på primär basis och identifieras för IMT, om delnings- och kompatibilitetsstudier visar att befintliga tjänster kan skyddas.

Sverige stödjer inte förändringar i fotnot avseende bandet 3 300-3 400 MHz som innebär allokering till mobila tjänster och identifiering till IMT i Region 1 norr om 30:e breddgraden.

Sverige stödjer inte en IMT-identifiering av frekvensbandet 6 425-7 025 (7 125) MHz som begränsar bandets flexibilitet för svensk del vad gäller dess användning, varken på kort eller på lång sikt.

Sverige är positiv till studier och är av åsikten att en identifiering av frekvensbandet 6 425-7 025 (7 125) MHz för IMT inte ska medföra begränsande villkor för befintlig användning. Därtill krävs att en sådan identifiering kan finna stöd i Europa.

### **Ansvariga grupper**

WP 5D, PT 1

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

SES Astra AB, Onsala rymdobservatorium, Overhorizon AB, SMHI, FMV

### **Svenska kommentarer**

SES Astra AB: Vi stödjer i synnerhet skrivningen i den svenska ståndpunkten att "Sverige stödjer inte en IMT-identifiering av frekvensbandet 6425-7025(7125) MHz samt att "en identifiering av frekvensbandet 6 425-7 025 (7 125) MHz för IMT inte ska medföra

begränsande villkor för befintlig användning”. Vi stödjer även skrivningen i den svenska ståndpunkten att ”Sverige kan acceptera att i Region 2 banden 3 600-3 800 MHz, (...) allokeras för mobila tjänster på primär basis och identifieras för IMT, om delnings- och kompatibilitetsstudier visar att befintliga tjänster kan skyddas” och noterar att dessa studier utförs senast inför WRC-15 och konkluderade i svårigheter till delning. Vi stödjer även princip #4 i Annex 1 av CVC/16-2 som understryker att ITU-R-studier bör “Use, to the extent practicable and available, any sharing and compatibilities studies carried out in previous cycles. This principle is necessary to avoid repeating studies previously performed.” Vi förstår och stödjer givetvis att svensk prioritet är låg för band som inte avser Region 1.

Overhorizon AB: Overhorizon AB stödjer inte en identifiering av frekvensbandet 6425-7025 MHz för IMT.

SMHI: Den passiva observationsverksamheten från satellit , EESS och SRS behöver skyddas från störningar från IMT i de föreslagna banden 6 425 – 7 075 MHz och 7 075 – 7 250 MHz. (Ocean surface temperature )

Det passiva observationsbandet för EESS och SRS i 10,6 – 10,7 GHz måste skyddas mot emissioner från 10,0 – 10,5 GHz

Bandet 10 – 10,4 GHz används för aktiva EESS tjänster. Dessa har behov av adekvat skydd från andra tjänster.

Onsala rymdobservatorium: OSO/CRAF preliminary position on agenda item 1.2.

- CRAF supports no change for the bands 3 300–3 400 MHz and 6 425–7 025 MHz,
- Compatibility studies will be required for the primary band 10.6–10.7 GHz for any new allocations to IMT in the 10–10.5 GHz for region 2.
- The RAS bands under RR No. 5.149 must be considered while evaluating the potential impact of new allocations to IMT in these bands.

FMV: Tillse skydd för radar i 3,3 -3,4 och 10-10,5 GHz. Stöd för NOC i 3,3 -3,4 och 10-10,5 GHz.



### **AI 1.3**

1.3 to consider primary allocation of the band 3 600-3 800 MHz to mobile service within Region 1 and take appropriate regulatory actions, in accordance with Resolution **246 (WRC-19)**;

#### **Prioritet**

Hög

#### **Svenska ståndpunkter**

Sverige stödjer en allokering till mobila tjänster på primär basis i frekvensbandet 3 600-3 800 MHz under förutsättning att villkoren för en allokering inte försämrar förutsättningar för mobil användning i Sverige.

#### **Ansvariga grupper**

WP 5A, PT 1

#### **ECP**

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#### **CEPT-ståndpunkt**

TBD

#### **Svenska intressenter**

SES Astra AB, SMHI

#### **Svenska kommentarer**

SES Astra AB: vi önskar på förekommen anledning (UAEs inlägg i debatten inom ITU-R) framålla att denna agendapunkt studerar en primär mobilallokering, inte en IMT-identifiering.

#### **AI 1.4**

1.4 to consider, in accordance with Resolution **247 (WRC-19)**, the use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level;

#### **Prioritet**

Hög

#### **Svenska ståndpunkter**

Sverige menar att det är av stor vikt att få fram en bra definition av HIBS i radioreglementet.

Användning av HIBS i banden 694–960 MHz, 1 710–1 885 MHz och 2 500–2 690 MHz ska inte orsaka störningar eller begränsningar på befintlig användning, inklusive annan IMT-användning, i dessa band och i grannband till dessa.

#### **Ansvariga grupper**

WP 5D, PT 1

#### **ECP**

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#### **CEPT-ståndpunkt**

TBD

#### **Svenska intressenter**

Onsala rymdobservatorium, SMHI

#### **Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF preliminary position on agenda item 1.4.

- Protection of the primary RAS band 2 690–2 700 MHz shall be ensured from possible new allocations for HIBS in the adjacent 2 500–2 690 MHz band.
- Protection of the bands 1 400–1 427 MHz (primary, passive, 5.340) 1 610.6–1 613.8 MHz and 1 660–1 670 MHz (primary, 5.149) as well as the band 1 330–1 400 MHz (secondary in some CEPT countries, 5.149) shall be ensured from second harmonics originating from systems operating in the band 694–960 MHz
- Consider the protection of the RAS bands 1 718.8–1 722.2 MHz and 2 655–2 690 MHz covered by RR 5.149 from any new allocations for HIBS in the bands 1 710–1 885 MHz and 2 500–2 690 MHz.

- Compatibility studies will be required for the above-mentioned bands taking into account the characteristics of HIBS and their deployment..

## **AI 1.5**

1.5 to review the spectrum use and spectrum needs of existing services in the frequency band 470–960 MHz in Region 1 and consider possible regulatory actions in the frequency band 470–694 MHz in Region 1 on the basis of the review in accordance with Resolution **235 (WRC-15)**;

### **Prioritet**

Hög

### **Svenska ståndpunkter**

Sverige stödjer en översyn av frekvensområdet 470–960 MHz vad gäller användning och behov. Sverige stödjer sådana regulatoriska förändringar i bandet 470–694 MHz, som innebär att bandet allokeras till mobila tjänster på primär basis i Region 1.

Regulatoriska åtgärder som ska föreslås på ITU-nivå i 470–694 MHz ska styras av framtida behov av frekvensanvändning men kommer sannolikt också att styras av politiska beslut på EU-nivå. Sverige bör agera på så sätt att det skapas bästa regulatoriska förutsättningar för att Sverige ska fritt kunna göra det valet av användningen som bäst motsvarar Sveriges framtida behov.

En eventuell fråga om identifiering av bandet 470–694 MHz eller delar av det för IMT kräver vidare analys.

### **Ansvariga grupper**

ITU-R TG6/1, PT D

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

Onsala rymdobservatorium, FMV

### **Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF preliminary position on agenda item 1.5.

- In order to strengthen the protection of the band in region 1 for radio astronomical observations, CRAF requests an upgrade for the secondary band 608–614 MHz to a primary allocation similar to the situation in region 2 and the African Broadcasting Area in region 1.

- CRAF supports sharing and compatibility studies for RAS protection for the primary allocation in the band 606–614 MHz in the African Broadcasting Area and the secondary allocation in the band 608–614 MHz for the European part in Region 1.

FMV: FMV ser ökade befintliga och framtida behov för FMV och Försvarsmakten av spektrumutrymme för Mobila tillämpningar inom frekvensområdet 470 - 512 MHz, och föreslår därför att PTS verkar för en Mobile Allocation i detta frekvensband.

Bakgrund; Behovet av spektrumutrymme för försvarsändamål inom UHF-området har ökat betydligt under ett antal år, och vi ser en fortsatt trend i den riktningen på såväl lång som kort sikt. Vi ser även med hänsyn till den utvecklingen en tilltagande bristsituation inom Försvarsmaktens befintliga utrymme inom delar av 240 - 400 MHz, varför vi gärna undersöker möjliga alternativ.

470-512 MHz ingår i tuning range hos flertalet på marknaden förekommande militära mobila UHF -system, samt även många av Försvarsmaktens befintliga system. Det vore därför en för FMV och Försvarsmakten gynnsam utveckling om frekvensbandet 470 - 512 MHz på ett eller annat sätt kunde göras mer tillgängligt för försvarsändamål.

ITU-R M. 1808 har även i sin senaste version kompletterats med data för 470 - 512 MHz som motsvarar vissa MIL radiosystem.

## **AI 1.6**

1.6 to consider, in accordance with Resolution **772 (WRC-19)**, regulatory provisions to facilitate radiocommunications for sub-orbital vehicles;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

Eventuella tekniska och operationella åtgärder bör redovisas i en ITU-R Rekommendation och inte i RR.

### **Ansvariga grupper**

WP 5B, PT C

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

Onsala rymdobservatorium, SMHI

### **Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF preliminary position on agenda item 1.6.

- To ensure any regulatory provisions under this agenda item will not affect the RAS operations.
- Support studies for the protection of any RAS bands that might be relevant to the regulatory provisions decided under this agenda item.

## **AI 1.7**

1.7 to consider a new aeronautical mobile-satellite (R) service (AMS(R)S) allocation in accordance with Resolution **428 (WRC 19)** for both the Earth-to-space and space-to-Earth directions of aeronautical VHF communications in all or part of the frequency band 117.975-137 MHz, while preventing any undue constraints on existing VHF systems operating in the AM(R)S, the ARNS, and in adjacent frequency bands;

### **Prioritet**

Medel

### **Svenska ståndpunkter**

Stöd för en ny allokering för AMS(R)S under förutsättning att det inte innebär störningar eller begränsningar på existerande tjänster i bandet eller i dess grannband, samt att en sådan förändring har stöd inom ICAO.

### **Ansvariga grupper**

WP 5B, PT C

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

TBD

### **Svenska kommentarer**

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## **AI 1.8**

1.8 to consider, on the basis of ITU-R studies in accordance with Resolution **171 (WRC-19)**, appropriate regulatory actions, with a view to reviewing and, if necessary, revising Resolution 155 (Rev.WRC-19) and No. 5.484B to accommodate the use of fixed-satellite service (FSS) networks by control and non-payload communications of unmanned aircraft systems;

**Prioritet**  
Medel

### **Svenska ståndpunkter**

Satellitssystem som avses användas för UAS:er, ska inte ges någon rätt till utökad regulatorisk status, vid koordinering eller vid framtida användning, jämfört med de rättigheter som skulle råda om satellitssystemet inte skulle användas för UAS:er.

**Ansvariga grupper**  
WP 5B, PT C

**ECP**

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### **CEPT-ståndpunkt**

- CEPT is of the view that the potential use of FSS for UAS CNPC links would operate in accordance with ICAO SARPs and under existing, successfully coordinated, assignments for current commercial FSS application and its safety of life status shall not have any impact on:
  - the existing terrestrial services and their current and expected applications,
  - the existing agreement between notifying administrations reached during satellite coordination process
  - the coordination of FSS networks during the application of provisions of Articles 9 and 11 of the RR
- CEPT recognises that ICAO is responsible for the safe operation of aircraft including UAS and is developing appropriate SARPs covering all aspects of safe operation of UAS including the required communication system
- CEPT is of the view that if the conditions for the safety operation of CNPC established by ICAO cannot be met with the existing FSS link as it stands, then this link should not be used for UAS.



**Svenska intressenter**

SES Astra AB, Onsala rymdobservatorium

**Svenska kommentarer**

SES Astra AB: Vi instämmer till fullo i den svenska ståndpunkten , liksom CEPTs preliminära position, att denna användning bör hanteras inom den gängse regleringen utan extra införd särskild status.

Onsala rymdobservatorium: OSO/CRAF preliminary position on agenda item 1.8.

Studies will be required for the protection of the RAS secondary allocation 14.47–14.5 GHz from possible use of the band 14–14.47 GHz by earth-to-space UAS CNPC links.

## **AI 1.9**

1.9 to review Appendix 27 of the Radio Regulations and consider appropriate regulatory actions and updates based on ITU R studies, in order to accommodate digital technologies for commercial aviation safety-of-life applications in existing HF bands allocated to the aeronautical mobile (route) service and ensure coexistence of current HF systems alongside modernized HF systems, in accordance with Resolution **429 (WRC-19)**;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

Sverige stöder effektivt nyttjande av befintliga frekvenser genom digital teknik och möjlighet till minskad kanalbredd, under förutsättning att samexistens med andra HF-system är möjligt.

### **Ansvariga grupper**

WP 5B, PT C

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

TBD

### **Svenska kommentarer**

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## **AI 1.10**

1.10 to conduct studies on spectrum needs, coexistence with radiocommunication services and regulatory measures for possible new allocations for the aeronautical mobile service for the use of non-safety aeronautical mobile applications, in accordance with Resolution **430 (WRC-19)**;

### **Prioritet**

Medel

### **Svenska ståndpunkter**

Sverige stödjer inte en ändring av allokeringen för mobile service i bandet 22-22,21 GHz, till att inkludera aeronautical mobile service, om det inte kan säkerställas att det inte innebär några begränsningar för fixed service inklusive dess framtida utveckling, samt att skyddet av Radioastronomi (VLBI) kan säkerställas.

En eventuell ny primär allokering till mobile service i bandet 15,4-15,7 GHz ska inte orsaka störningar på andra tjänster till vilket bandet är allokerat och inte heller orsaka (oskäligen) begränsningar eller på något sätt påverka säkerheten vad gäller tillämpningar inom luftfarten (inklusive mil).

Kommentar: Att revidera allokering i 15,4-15,7 GHz samt att få en ny allokering i 22,0-22,21 GHz för aeronautical MS i syfte att få frekvenser för "non-safety aeronautical mobile applications" verkar bli svårt, givet RR samt situationen i Sverige. En rekommendation kan vara en bra lösning.

### **Ansvariga grupper**

WP 5B, PT C

### **ECP**

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### **CEPT-ståndpunkt**

CEPT supports that any modification of the RR should ensure appropriate protection for the EESS/SRS (passive) and the RAS (taking into account RR No. 5.149) allocated in adjacent frequency band from unwanted emissions of the AMS.

### **Svenska intressenter**

Onsala rymdobservatorium, SMHI

**Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF Preliminary position on agenda item 1.10.

Protection of the primary RAS bands 22.21–22.5 GHz and 15.35–15.4 GHz shall be ensured from possible new allocations to aeronautical services in the adjacent bands. Furthermore, the protection of the band 22.01–22.21 GHz (RR No. 5.149, also secondary in some CEPT countries) will be necessary.

Compatibility studies will be required for the above-mentioned bands taking into account the characteristics of aeronautical mobile services under this agenda item

## **AI 1.11**

1.11 to consider possible regulatory actions to support the modernization of the Global Maritime Distress and Safety System and the implementation of e-navigation, in accordance with Resolution **361 (Rev.WRC-19)**;

### **Prioritet**

Medel

### **Svenska ståndpunkter**

Stöd för ett eventuellt införande av e-navigering och modernisering av GMDSS inom ramen för existerande frekvensband för *maritime mobile service* (inklusive *maritime mobile satellite service*), kopplat till eventuella beslut inom IMO.

(frågan om NAVDAT kan bli aktuell. Inför WRC-19 gav vi ej stöd för inkludering av NAVDAT i Appendix 15).

Nya allokeringar för *maritime mobile* eller utpekande av ytterligare (befintliga) satellitsystem för GMDSS ska inte medföra begränsningar för annan allokerad användning i samma eller angränsande band.

Kommentar: Kandidatfrekvensband anges inte i resolutionen, viktigt att redan i början av studieperioden identifiera spektrumbehov dels för att frekvensmässigt avgränsa studiearbetet och dels för att undvika ny spektrumallokering för maritima tjänster. Behov av frekvenser bör först kunna lösas under befintliga allokeringar.

### **Ansvariga grupper**

WP 5B, PT C

### **ECP**

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### **CEPT-ståndpunkt**

Issue A: Modernisation of GMDSS

CEPT support the possible regulatory actions needed to implement the GMDSS modernisation in the Radio Regulation based on decisions to be taken in IMO.

Issue B: e-navigation

CEPT support, based on decisions to be taken in IMO, the possible regulatory actions needed to implement the e-navigation in the Radio Regulation, if appropriate.

Issue C: Regulatory action due to the introduction of additional satellite systems into the GMDSS by IMO

CEPT support regulatory actions to introduce an additional satellite system into the GMDSS, based on decisions to be taken in IMO.

**Svenska intressenter**

Onsala rymdobservatorium

**Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF Preliminary position on agenda item 1.11.

- According to the RR No. 5.372, harmful interference shall not be caused to stations of the radio astronomy service using the frequency band 1 610.6–1 613.8 MHz by stations of the radiodetermination-satellite and mobile-satellite services (RR No. 29.13 applies). Studies will be required for RAS protection from possible interference that could be caused by additional GSO systems.
- Studies will be required for the protection of the RAS band 4 950–5 000 MHz from second harmonics in the downlink band 2 483.5–2 500 MHz.
- Regulatory provisions for the GMDSS modernization and e-navigation under this agenda item will be monitored for more information.

**AI 1.12**

1.12 to conduct, and complete in time for WRC 23, studies for a possible new secondary allocation to the Earth exploration-satellite (active) service for spaceborne radar sounders within the range of frequencies around 45 MHz, taking into account the protection of incumbent services, including in adjacent bands, in accordance with Resolution **656 (Rev.WRC-19)**;

**Prioritet**

Medel, låg?

**Svenska ståndpunkter**

Sverige kan acceptera en allokering till jordutforskning på sekundär basis i frekvensområdet kring 45 MHz, under förutsättning att spektrumbehov är påvisat samt att kompatibilitet med befintliga tjänster är möjligt.

**Ansvariga grupper**

WP 7C, PT A

**ECP**

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**CEPT-ståndpunkt**

TBD

**Svenska intressenter**

SMHI

**Svenska kommentarer**

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## **AI 1.13**

1.13 to consider a possible upgrade of the allocation of the frequency band 14.8-15.35 GHz to the space research service, in accordance with Resolution **661 (WRC-19)**;

### **Prioritet**

Medel

### **Svenska ståndpunkter**

I första hand behålla den sekundära allokeringen. Om en primär allokering är aktuell måste befintliga användningar skyddas.

### **Ansvariga grupper**

WP 7B, PT A

### **ECP**

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### **CEPT-ståndpunkt**

CEPT is supporting upgrade of SRS allocation from secondary to primary while ensuring protection for in-band FS/MS and passive services in adjacent bands.

### **Svenska intressenter**

Onsala rymdobservatorium, SMHI

### **Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF Preliminary position on agenda item 1.13.

- Protection of the primary RAS band 15.35–15.4 GHz shall be ensured from the possible upgrade of SRS in the adjacent band.
- Compatibility studies will be required for the protection of the RAS passive band taking into account the characteristics of SRS defined under this agenda item



## **AI 1.14**

1.14 to review and consider possible adjustments of the existing or possible new primary frequency allocations to EESS (passive) in the frequency range 231.5-252 GHz, to ensure alignment with more up-to-date remote-sensing observation requirements, in accordance with Resolution **662 (WRC-19)**;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

Nya allokeringar på primär basis för EESS inom frekvensbandet 231,5-252 GHz ska vara baserat på visat behov och inte medföra begränsningar för befintliga tjänster till vilket bandet är allokerat.

### **Ansvariga grupper**

WP 7C, PT A

### **ECP**

-

### **CEPT-ståndpunkt**

CEPT supports in principle to cover relevant requirements of passive microwave sensor measurements within the frequency range 231.5-252 GHz with frequency allocations to EESS (passive) without unduly constraining the other primary services currently allocated in this frequency range.

### **Svenska intressenter**

Onsala rymdobservatorium, SMHI

### **Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF Preliminary position on A.I 1.14 Studies will be required to review the impact that any change to the EESS (passive) allocations in the frequency range 231.5–252 GHz might have on RAS in this band.

CRAF supports the possibility of including the RAS if allocations to passive services are created or altered in the frequency range 231.5–252 GHz

## **AI 1.15**

1.15 to harmonize the use of the frequency band 12.75-13.25 GHz (Earth-to-space) by earth stations on aircraft and vessels communicating with geostationary space stations in the fixed-satellite service globally, in accordance with Resolution **172 (WRC-19)**;

### **Prioritet**

Medel

### **Svenska ståndpunkter**

Stöd för att möjliggöra GSO FSS jordstationer ombord på flyg och fartyg i frekvensbandet 12,75-13,25 GHz (E->s) under förutsättning att frekvensbanden även fortsättningsvis ska kunna användas för mobil radio, och fast radio (både existerande och framtida) utan ytterligare begränsningar.

### **Ansvariga grupper**

WP 4A, PT B

### **ECP**

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### **CEPT-ståndpunkt**

CEPT supports establishing a regulatory framework and technical requirements for operation of earth stations on aircraft in the frequency band 12.75-13.25 GHz (Earth-to-space) with conditions that protect the services currently allocated in this frequency band and bands adjacent to it, taking into account ECC Decision (19)04.

CEPT supports establishing a regulatory framework and technical requirements for operation of earth stations on vessels in the frequency band 12.75-13.25 GHz (Earth-to-space) pending on the results of the studies conducted on protection of services currently allocated in this frequency band and bands adjacent to it.

### **Svenska intressenter**

SES Astra AB, Overhorizon AB

### **Svenska kommentarer**

SES Astra AB: Vi stödjer generellt utökade möjligheter till användandet av befintliga allokeringar så länge studier visar att det inte negativt påverkar andra tjänster eller annat användande inom samma allokering. I detta fall är det knappast kontroversiellt så länge regleringen inte påverkar plantilldelningarna. Fler möjligheter att tillgodose det erkänt ökande behovet av ESIM via satellittjänster i

enlighet med klargjord reglering är sannerligen välkommet och  
välbehövt. Vi stödjer därmed den svenska positionen samt CEPTs  
preliminära position.

## **AI 1.16**

1.16 to study and develop technical, operational and regulatory measures, as appropriate, to facilitate the use of the frequency bands 17.7-18.6 GHz and 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) by non-GSO FSS earth stations in motion, while ensuring due protection of existing services in those frequency bands, in accordance with Resolution **173 (WRC-19)**;

### **Prioritet**

Hög

### **Svenska ståndpunkter**

Sverige kan acceptera åtgärder inklusive regulatoriska, som möjliggör en användning av jordstationer i rörelse för kommunikation med N-GSO inom FSS, under förutsättning att frekvensbanden även fortsättningsvis ska kunna användas för mobil radio, fast radio och fixed-satellite service (både existerande och framtida) utan ytterligare begränsningar.

### **Ansvariga grupper**

WP 4A, PT B

### **ECP**

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### **CEPT-ståndpunkt**

CEPT supports the development of a regulatory framework for the operation of ESIM communicating with non-GSO satellite systems in the FSS in the frequency bands 17.7-18.6 GHz, 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space). The technical and operational requirements for the use of non-GSO ESIM shall ensure the protection of GSO systems and other services operating in the same frequency bands and in adjacent bands.

- CEPT is of the view that non-GSO ESIM operating in the frequency bands 17.7-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) shall not claim protection from terrestrial services having allocations in the same frequency bands and operating in accordance with the Radio Regulations.
- CEPT is of the view that the protection of GSO networks in the fixed-satellite service operating in the frequency bands 27.5-28.6 GHz and 29.5-30 GHz from non-GSO ESIM can be achieved by complying with EPFD limits referred to in No.

22.5D. The protection of GSO networks and non-GSO systems in the FSS operating in the frequency band 28.6-29.1 GHz shall be achieved based on coordination agreements between administrations and operators in accordance with No. 9.11A.

**Svenska intressenter**

SES Astra AB, SMHI

**Svenska kommentarer**

SES Astra AB: Vi stödjer generellt utökade möjligheter till användandet av befintliga allokeringar så länge studier visar att det inte negativt påverkar andra tjänster eller annat användande inom samma allokering. Vi ser därför gärna att den svenska ståndpunkten styrks till att Sverige stödjer åtgärder, istället för "kan acceptera åtgärder" i enlighet med CEPTs preliminära position som inleds med "CEPT supports the development of a regulatory framework for the operation of ESIM communicating with non-GSO satellite systems in the FSS..." för att därefter givetvis följas upp med den lämpliga, vanliga skivningen " under förutsättning att..." såsom ovan. I detta fall är denna utveckling knappast kontroversiell utan snarare en naturlig fortsättning på tidigare AI 1.5 avseende ESIM för GSO. Fler möjligheter att tillgodose det erkänt ökande behovet av ESIM via satellittjänster i enlighet med klargjord reglering är som bekant välkommet, särskilt som dessa tjänster redan erbjuds idag via NGSO.

## **AI 1.17**

1.17 to determine and carry out, on the basis of the ITU-R studies in accordance with Resolution **773 (WRC-19)**, the appropriate regulatory actions for the provision of inter-satellite links in specific frequency bands, or portions thereof, by adding an inter-satellite service allocation where appropriate;

### **Prioritet**

Medel

### **Svenska ståndpunkter**

Sverige stödjer klargjord reglering för FSS avseende ISS-aspekter i de aktuella banden, under förutsättning att de regulatoriska förutsättningarna utformas så att användning i banden (existerande och framtida), inklusive FSS, inte begränsas.

Kommentar: De frekvensband som berörs är: 11,7-12,7 GHz, 18,1-18,6 GHz, 18,8-20,2 GHz och 27,5-30 GHz. Enligt RR kan FSS omfatta ISS.

### **Ansvariga grupper**

WP 4A, PT B

### **ECP**

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### **CEPT-ståndpunkt**

CEPT supports the development of a regulatory framework to enable the operation of satellite-to-satellite links within the fixed-satellite service (FSS) allocation in the 11.7-12.7 GHz, 18.1-18.6 GHz, 18.8-20.2 GHz and 27.5-30 GHz bands, or parts thereof, while ensuring protection of existing services in the same frequency bands and adjacent bands.

CEPT supports that the introduction of satellite-to-satellite transmissions must ensure the same level of protection for GSOs and non-GSOs as currently provided in the RR and must not impose new constraints on GSOs and NGSOs to protect satellite-to-satellite links from interference.

CEPT supports that the introduction of satellite-to-satellite transmissions must ensure the same level of protection for terrestrial services as currently provided in the RR and must not impose new constraints on terrestrial services to protect satellite-to-satellite links from interference.

CEPT proposes that space stations that plan satellite-to-satellite transmissions should be governed by the following preliminary guiding principles:

- Only operations within the cone of coverage of GSO or NGSO service provider space stations are allowed. The cone of coverage of an FSS service provider space station is the volume of space between the service provider space station and its notified service areas. For the operation of non GSO service provider space stations, the cone of coverage moves and changes as the satellite moves around its orbit;
- Satellite-to-satellite link transmissions will comply with the same directionality indicators as in the existing FSS allocations (Earth-to-space = from lower altitude to higher altitude, space-to-Earth = from higher altitude to lower altitude);
- Non-GSO user space stations will operate in a manner that should resemble typical user stations of the host FSS service provider system;
- Non-GSO user space stations should comply with applicable EPFD limits in the portions of the Ku- and Ka-bands where these limits apply when communicating with a non-GSO FSS service provider space station;
- The higher altitude to lower altitude link transmissions in 11.7-12.7 GHz, 18.1-18.6 GHz and 18.8-20.2 GHz from the GSO or non-GSO FSS service provider space station to the non-GSO user space station would be identical in technical characteristic to the transmissions from GSO or non-GSO service providers to any ground-based user in the service provider's network

**Svenska intressenter**

SES Astra AB, SMHI

**Svenska kommentarer**

SES Astra AB: Vi stödjer generellt utökade möjligheter till användandet av befintliga allokeringar så länge studier visar att det inte negativt påverkar andra tjänster eller annat användande inom samma allokering. I detta fall kan detta såsom påpekas i kommentaren ovan att "Enligt RR kan FSS omfatta ISS" redan, vilket innebär att agendapunkten innebär välbehövliga klargöranden för FSS-allokeringar eftersom det är högst oklart hur denna typ av användande kan optimeras, effektiviseras och säkras idag. Agendapunkten bör därmed inte omfatta en ny ISS-allokering. Vi stödjer därmed den svenska ståndpunkten, inklusive kommentaren, jämte CEPTs preliminära position som vi noterar går betydligt mer in i detalj inklusive ett flertal guidande principer som vi gärna ser att Sverige också stödjer?

## **AI 1.18**

1.18 to consider studies relating to spectrum needs and potential new allocations to the mobile-satellite service for future development of narrowband mobile-satellite systems, in accordance with Resolution **248 (WRC-19)**;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

En ny allokering för MSS i bandet 2010-2025 MHz ska inte begränsa möjligheten att använda bandet för den i Europa harmoniserade användningen.

Kommentar: Gäller följande frekvensband: 1695-1710 MHz (Region 2), 2010-2025 MHz (Region 1), 3300-3315 MHz (Region 2), 3385-3400 MHz (Region 2)

### **Ansvariga grupper**

WP 4C, PT B

### **ECP**

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### **CEPT-ståndpunkt**

Based on the results of spectrum needs and sharing and compatibility studies conducted respectively under the resolves to invite the ITU-R 1) and 2) of Resolution 248 (WRC-19), CEPT will consider possible new primary or secondary allocations, with the necessary technical limitations, taking into account the characteristics described in recognizing c), to the MSS for non-GSO satellites operating low-data rate systems for the collection of data from, and management of, terrestrial devices, while ensuring the protection of existing primary services in those frequency bands, and adjacent bands, without causing undue constraints on their further development.

### **Svenska intressenter**

Onsala rymdobservatorium, SMHI, FMV

### **Svenska kommentarer**

FMV: Tillse skydd för radar i 3,3 -3,4 GHz.



## **AI 1.19**

1.19 to consider a new primary allocation to the fixed-satellite service in the space-to-Earth direction in the frequency band 17.3-17.7 GHz in Region 2, while protecting existing primary services in the band, in accordance with Resolution **174 (WRC-19)**;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

Gäller endast Region 2.

Region 1 har redan allokering FSS (s>E).

Sverige kan acceptera en primär allokering FSS (s-E) i Region 2 – med lämpliga villkor (se t.ex. 5.516 A)

### **Ansvariga grupper**

WP 4A, PT B

### **ECP**

–

### **CEPT-ståndpunkt**

Given that frequency band 17.3-17.7 GHz is allocated to FSS (space to Earth) in Region 1, CEPT would support a similar allocation in Region 2 which facilitates the use of spectrum available to networks and systems in the FSS in different Regions, if the studies show that the new allocation is feasible.

### **Svenska intressenter**

SES Astra AB

### **Svenska kommentarer**

SES Astra AB: Vi förstår och stödjer givetvis att svensk prioritet är låg för agendapunkter som inte avser Region 1 och stödjer den svenska ståndpunkten jämte CEPTs preliminära position. Vi ser inte denna agendapunkt som kontroversiell utan förutser snarare en tidig överenskommelse baserad på inkomna studier.

## **AI 2**

2 to examine the revised ITU R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with further resolves of Resolution **27 (Rev.WRC-19)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in resolves of that Resolution;

### **Prioritet**

Medel

### **Svenska ståndpunkter**

Stöd för uppdatering av referenser i RR till ITU-R rekommendationer under förutsättning av att det inte påverkar nuvarande eller planerad användning negativt.

### **Ansvariga grupper**

#### **ECP**

-

#### **CEPT-ståndpunkt**

TBD

#### **Svenska intressenter**

TBD

#### **Svenska kommentarer**

-

**AI 3**

3 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;

**Prioritet**

Låg

**Svenska ståndpunkter**

TBD - beslut under WRC baserat på andra konferensbeslut.

**ECP**

-

**CEPT-ståndpunkt**

TBD

**Svenska intressenter**

TBD

**Svenska kommentarer**

-

#### **AI 4**

4 in accordance with Resolution **95 (Rev.WRC-19)**, to review the Resolutions and Recommendations of previous conferences with a view to their possible revision, replacement or abrogation;

#### **Prioritet**

Medel

#### **Svenska ståndpunkter**

Stöd för strykning av ”överspelade” resolutioner och rekommendationer samt uppdatering av dessa om förändringar beslutas av konferensen som har betydelse för innehållet.

Stöd för uppdatering av referenser i resolutionerna och rekommendationerna till ITU-R rekommendationer under förutsättning av att det inte påverkar nuvarande eller planerad användning negativt.

#### **Ansvariga grupper**

#### **ECP**

-

#### **CEPT-ståndpunkt**

CEPT encourages the constant review of Resolutions and Recommendations from previous conferences and will follow activities, in particular of ITU, associated with this effort.

- CEPT proposes to suppress Resolutions: TBD
- CEPT proposes to modify Resolutions: TBD
- CEPT proposes to suppress Recommendation: TBD
- CEPT proposes to modify Recommendation: TBD

#### **Svenska intressenter**

TBD

#### **Svenska kommentarer**

-

**AI 5**

5 to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention;

**Prioritet**

Låg

**Svenska ståndpunkter**

TBD – Beslut tas under WRC när resultatet av RA är klart.

**ECP**

-

**CEPT-ståndpunkt**

TBD

**Svenska intressenter**

TBD

**Svenska kommentarer**

-

**AI 6**

6 to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;

**Prioritet**

Låg

**Svenska ståndpunkter**

TBD – Beslut tas under WRC baserat på andra konferensbeslut.

**Ansvariga grupper****ECP**

-

**CEPT-ståndpunkt**

TBD

**Svenska intressenter**

TBD

**Svenska kommentarer**

-

## **AI 7**

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

### **Prioritet**

Medel

### **Svenska ståndpunkter**

Sverige stöder att frågor tas upp under Res 86 (Rev.WRC 07 ) under förutsättning att de kan förväntas leda till signifikanta förbättringar, förenklingar eller tydliggörande i RR samt att frågorna initieras i tid enligt gällande tidsramar.

### **Ansvariga grupper**

WP 4A, PT B

### **ECP**

-

### **CEPT-ståndpunkt**

#### Övergripande

CEPT supports retaining the current process of continuing evolution at successive WRCs of the regime governing space services. CEPT also favours a stable and predictable regulatory framework for efficient use of spectrum and orbit resources. CEPT intends to develop specific positions susceptible to bring improvement to the regulatory process.

CEPT favours the review of any RR provision which can bring accurate solutions to specific detected inconsistencies and develop new improved provisions with emphasis on solving the most urgent issues, i.e. well characterized issues whose improvement is urgent and impacting.

#### Per topic

Topic	Title	CEPT position
CG#5 Task 1	Tolerances for non-GSO orbital characteristics	<ul style="list-style-type: none"> <li>– CEPT supports the development of the definition of tolerances limited to the four orbital characteristics of non-GSO space stations in FSS, BSS and MSS identifying a “notified orbital plane”.</li> <li>– CEPT does not support the development of tolerances under this topic for the orbital characteristics of non-GSO space stations whose frequency assignments belong to services other than the FSS, BSS and MSS.</li> <li>– To avoid collision with another non-GSO space station or to permit reorganization of satellites in an orbit-plane after a launch of new non-GSO space stations, CEPT supports specific regulatory measures to temporarily exceed the defined tolerances if final tolerances definition could not address such operational requirements.</li> <li>– CEPT supports the development of appropriate regulatory consequences for frequency assignments to non-GSO space stations that do not maintain these to-be-developed orbital tolerances.</li> </ul>
CG#5 Task 2	Non-GSO BIU post-milestone procedure	<ul style="list-style-type: none"> <li>– CEPT supports the development of final Post-milestone procedures at WRC-23 to replace temporary Post-milestone procedures contained in the Resolution <b>35 (WRC-19)</b> in <i>resolves</i> 19.</li> <li>– CEPT supports the development of new procedures which permit some temporary flexibilities on the real number of satellites deployed compared to the number of satellites contained in the Master Register.</li> <li>– CEPT supports the development of appropriate regulatory consequences for frequency assignments to non-GSO space stations that do not respect these to-be-developed post-milestone procedures.</li> </ul>
CG#5 Task 3	Protection of GSO MSS from non-GSO emissions in 7/8 and 20/30 GHz	<ul style="list-style-type: none"> <li>– CEPT supports the identification and definition of criteria in order to quantify the protection of GSO networks operating in the MSS from interference caused by non-GSO networks or systems operating in the same frequency bands 7 250-7 375 MHz (space-to-Earth), 7 900-8 025 MHz (Earth-to-space), 20.2-21.2 GHz (space-to-Earth) and 30-31 GHz (Earth-to-space).</li> </ul>
CG#6 Task 1	Resolution 769 (WRC-19) GSO protection from non-GSO in QV bands	<ul style="list-style-type: none"> <li>– CEPT supports that any regulatory text that needs to be developed under this topic should be addressed under Agenda item 7.</li> <li>– CEPT supports that any technical studies that WRC-19 urgently invited the ITU-R to carry out, should aim at the development of an ITU-R Report, an ITU-R Recommendation and/or a WRC Resolution.</li> <li>– CEPT supports the development of a suitable methodology to take into account the aggregate effect from non-GSO systems.</li> </ul>



Topic	Title	CEPT position
		<ul style="list-style-type: none"> <li>– CEPT supports the development of a methodology to validate supplemental links and of a suitable procedure to select one or more C/N objectives for supplemental links at needed percentages of time.</li> </ul>

**Svenska intressenter**

SES Astra AB, Overhorizon AB, SMHI

**Svenska kommentarer**

SES Astra AB: Vad innebär orden ”samt att frågorna initieras före... i positionen ovan? Vi ser inget utökat värde av det eftersom tidsramarna redan fastställts av ITU-R Res 2-8 A1.2.6.

Vi stödjer samtliga preliminära CEPT-positioner och noterar att WP4A CG#3 Task 3 har lägre prioritet än de övriga för SES Astra AB. Vidare stödjer vi särskilt att merparten av de tekniskt detaljerade studier inom WRC-19 A1 1.9 angående GSO-skydd från NGSO i QV-band inte hanteras inom agendapunkt 7 såsom CEPT-positionen deklarerar.

## **AI 8**

8 to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution **26 (Rev.WRC-19)**;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

I princip ska endast strykningar av fotnoter eller namn i fotnoter accepteras under denna agendapunkt för att minska avvikelserna i tabellen för frekvensallokeringar (Artikel 5).

I vissa fall kan det dock accepteras att fotnoter utökas med ytterligare länder, detta gäller speciellt om detta ökar harmoniseringen i en region eller del av region.

Nuvarande praxis som den tillämpats vid WRC-15 och WRC-19 bör behållas.

### **Ansvariga grupper**

#### **ECP**

-

#### **CEPT-ståndpunkt**

TBD

#### **Svenska intressenter**

TBD

#### **Svenska kommentarer**

-

**AI 9**

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention;

**AI 9.1**

9.1 on the activities of the Radiocommunication Sector since  
WRC-19:

## **9.1 topic a**

In accordance with Resolution **657 (Rev.WRC-19)**, review the results of studies relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations for space weather sensors with a view to describing appropriate recognition and protection in the Radio Regulations without placing additional constraints on incumbent services;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

TBD

### **Ansvariga grupper**

WP 7C, PT A

### **ECP**

-

### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

SES Astra AB, Onsala rymdobservatorium, SMHI

### **Svenska kommentarer**

Onsala rymdobservatorium: OSO/CRAF Preliminary position on agenda item 9.1 topic a). CRAF will contribute to any sharing studies involving the common frequency bands used by RAS and the receive-only space weather sensors for appropriate protection.

## **9.1 topic b**

Review of the amateur service and the amateur-satellite service allocations in the frequency band 1 240 - 1 300 MHz to determine if additional measures are required to ensure protection of the radionavigation-satellite (space-to-Earth) service operating in the same band in accordance with Resolution **774 (WRC-19)**;

### **Prioritet**

Låg

### **Svenska ståndpunkter**

TBD

Kommentar: Det pågår arbete inom CEPT

### **Ansvariga grupper**

WP 5A, PT C

### **ECP**

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### **CEPT-ståndpunkt**

- CEPT supports the protection of the RNSS
- CEPT supports the development of a new ITU-R Report or Recommendation to provide guidance towards the implementation of technical and operational measures for the use the frequency band 1 240-1 300 MHz by the Amateur and Amateur-satellite service in accordance with the RR in order to protect the RNSS.

### **Svenska intressenter**

SES Astra AB, SMHI

### **Svenska kommentarer**

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## 9.1 topic c

Study the use of International Mobile Telecommunication system for fixed wireless broadband in the frequency bands allocated to the fixed services on primary basis, in accordance with Resolution **175 (WRC-19)**;

### Prioritet

Medel/Hög

### Svenska ståndpunkter

Agendapunkten ska inte leda till förändringar i ITU-RR. Viktigt med skydd av fixed services.

### Ansvariga grupper

WP 5A & WP 5C, PT A

### ECP

-

### CEPT-ståndpunkt

CEPT opposes to any changes to the RR in response to WRC-23 Agenda item 9.1, topic c. With this CEPT is also of the view that there is no need to consider/study specific frequency bands.

CEPT is of the view that fixed wireless broadband applications using IMT technologies as well as other technologies in the frequency bands allocated to the fixed service can be addressed through update of appropriate existing ITU-R Recommendations/Reports/Handbooks. Development of new ITU-R Recommendations/Reports should only be considered, if necessary, based on the outcome of review of existing ITU-R deliverables. Therefore, this work falls under regular activities of Working Parties 5A and 5C.

### Svenska intressenter

SES Astra, Onsala rymdobservatorium, SMHI

### Svenska kommentarer

SES Astra AB: Vi stödjer till fullo stödjer den högst okontroversiella, och av RA-19 och WRC-19 ännu tydligare bekräftade, positionen att "Agendapunkten ska inte leda till förändringar i ITU-RR." vilket också bekräftas av den preliminära CEPT-position som vi stödjer till fullo.

Onsala rymdobservatorium: OSO/CRAF Preliminary position on agenda item 9.1 topic c). As there are several frequency bands allocated to the fixed services that are adjacent or shared with RAS bands, the use of IMT systems in these bands will require compatibility studies for RAS protection in any relevant bands. CRAF is monitoring the A.I for more information on specific spectrum usage.



## **9.1 topic d**

Protection of EESS (passive) in the frequency band 36–37 GHz from non-GSO FSS space stations; WRC-19 **Document 535**, 2nd section of the Annex

### **Prioritet**

Låg

### **Svenska ståndpunkter**

TBD

### **Ansvariga grupper**

WP 7C, PT A

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

SES Astra AB, SMHI

### **Svenska kommentarer**

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## **AI 9.2**

9.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations; and<sup>1</sup>

### **Prioritet**

TBD

### **Svenska ståndpunkter**

TBD

### **Ansvariga grupper**

PT B

### **ECP**

-

### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

SES Astra AB

### **Svenska kommentarer**

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<sup>1</sup> This agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations. Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.

**AI 9.3**

9.3 on action in response to Resolution **80 (Rev.WRC-07)**;

**Prioritet**

TBD

**Svenska ståndpunkter****Ansvariga grupper**

PT B

**ECP**

-

**CEPT-ståndpunkt**

TBD

**Svenska intressenter**

SES Astra AB

**Svenska kommentarer**

## **AI 10**

10 to recommend to the Council items for inclusion in the agenda for the next WRC, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the Convention and Resolution **804 (Rev.WRC-19)**;

### **Prioritet**

Hög

### **Svenska ståndpunkter**

Stöd för principerna för agendapunkter som finns i Resolution 804.

Detta innebär bl.a. att de studier som föreslås ska inte vara mer omfattande än vad som kan genomföras med oförändrade resurser inom medlemsstaterna och ITU.

Varje förslag till agendapunkt ska åtföljas av en analys av resursåtgången.

Studierna ska i normalfallet kunna slutföras under en studieperiod. I undantagsfall kan en agendapunkt studeras under två perioder. Preliminära agendapunkter inför WRC-27 bör särskilt beaktas.

Förslagen till agendapunkter bör tas fram tidigt i processen och kopplas till pågående arbete inför WRC-23. Detta för att undvika att beslut under WRC-23 förhindrar eller försvårar beslut vid nästa WRC.

Endast frågor som kräver en reglering i RR ska tas upp på agendan för kommande WRC.

Frågor av studiekarakter eller rekommendationer ska hänvisas till det ordinarie arbetet inom ITU-R.

### **Ansvariga grupper**

PT A

### **ECP**

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### **CEPT-ståndpunkt**

TBD

### **Svenska intressenter**

SES Astra AB, Onsala rymdobservatorium, Overhorizon AB, SMHI

### **Svenska kommentarer**

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**Other issues: Article 21**

As a result of discussions by WRC-19 on the applicability of the limit specified in No. 21.5 of the Radio Regulations to IMT stations that use an antenna that consists of an array of active elements, ITU-R was invited to study this issue and to report the results of the studies to the Director of the Radiocommunication Bureau to be considered as the Director deems appropriate.

Issue A: This will encompass the following elements, set out in WRC-19 document 550:

- the applicability of the limit specified in No. 21.5 of the Radio Regulations to IMT stations that use an antenna that consists of an array of active elements
- to recommend ways for the possible replacement or revision of No. 21.5 for such stations
- any necessary updates to Table 21-2 related to terrestrial and space services sharing frequency bands.

Issue B: Furthermore, the ITU-R is invited to study, as a matter of urgency, verification of No. 21.5 regarding the notification of IMT stations operating in the frequency band 24.45-27.5 GHz that use an antenna that consists of an array of active elements, as appropriate.

Kommentar: Frankrike har börjat kalla den här frågan för AI 9.1 topic 21.5. Det är mycket aktivitet på många håll förutom i PT 1 och WP 5D även i PT B och WP 4C.

**Prioritet**

TBD

**Svenska ståndpunkter**

Sverige ser för närvarande inte behov av att RR behöver uppdateras vad gäller No. 21.5.

Viktigt att inte ta ett förhastat beslut om ändring av No. 21.5 vilket kan få oönskade konsekvenser över lång tid.

**Ansvariga grupper**

WP 5D, PT 1

**ECP**

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**CEPT-ståndpunkt**

TBD

**Svenska intressenter**

SES Astra AB

**Svenska kommentarer**

SES Astra AB: Vi stödjer studier samt lämplig modifiering av Art. 21.5 som kan rendera i ett klagörende för terrestra stationer med aktiva antensystem att korrekt applicera 21.5 för ett bibehållet skydd av satellitmottagare. Vi stödjer även en uppdatering av Tabell 21-2 för att inkludera band identifierade för IMT av WRC-19 som också är allokerade till satellittjänster för upplänk som ännu inte är inkluderade i 21-2.

**Other issues: Res 427 Aeronautical provisions**

WRC-19 through Resolution 427 (WRC-19) resolves to invite the ITU Radiocommunication Sector:

to study the Articles, limited to Chapters IV, V, VI and VIII of Volume I, of the Radio Regulations and their associated Appendices, as appropriate, in order to identify outdated aeronautical provisions with respect to ICAO standards and recommended practices and to develop examples of regulatory texts for updating these provisions, while ensuring that potential changes to such provisions will not impact any other systems or services operating in accordance with the Radio Regulations,

**Prioritet**

TBD

**Svenska ståndpunkter**

TBD

**Ansvariga grupper**

WP 5B, PT C

**ECP**

-

**CEPT-ståndpunkt**

TBD

**Svenska intressenter****Svenska kommentarer**

**Other issues: Res 655 time scale**

Definition of time scale and dissemination of time signals via radiocommunication systems.

Kommentar: CPG23-plenar ska besluta om och när en PT A ska börja arbeta med att ta fram en CEPT brief för den här frågan.

**Prioritet**

TBD

**Svenska ståndpunkter**

TBD

**Ansvariga grupper**

WP 7A, PT A

**ECP**

-

**CEPT-ståndpunkt**

TBD

**Svenska intressenter****Svenska kommentarer**



**Other issues: CS Article 48**

to contribute to the consideration of the question by Com-ITU regarding the invocation of Article 48 of the ITU Constitution in relation to the Radio Regulations, as raised at WRC-19, and prepare relevant deliverables and liaisons to Com-ITU for CPG.

Kommentar: Article 48 var på agendan för WRC-19 under AI 9.3. Då kom man fram att det i första hand var en fråga för ITU Plenpotentiary (PP). Nästa PP äger rum 2022. PT B ska stödja COM-ITU i den här frågan. Från PP kan sedan frågan hamna på agendan för WRC-23. Men det är inte klart i nuläget.

**Prioritet**

TBD

**Svenska ståndpunkter**

Sverige är för ett klagörande vad gäller aktivering av Artikel 48 i ITU:s konstitution.

**Ansvariga grupper**

PT B

**ECP**

-

**CEPT-ståndpunkt**

TBD

**Svenska intressenter**

SES Astra AB

**Svenska kommentarer**

## CEPT-koordinatorer och PTS AI-ansvariga

WRC-23 Agenda Item	CEPT Coordinator	PTS AI-ansvarig
<p>1.1 to consider, based on the results of the ITU R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. 5.441B in accordance with Resolution 223 (Rev.WRC-19);</p>		
<p>1.2 to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution 245 (WRC-19);</p>	<p>Tuck Poon (United Kingdom)</p>	
<p>1.3 to consider primary allocation of the band 3 600-3 800 MHz to mobile service within Region 1 and take appropriate regulatory actions, in accordance with Resolution 246 (WRC-19);</p>		
<p>1.4 to consider, in accordance with Resolution 247 (WRC-19), the use of high-altitude</p>		

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level;		
1.5 to review the spectrum use and spectrum needs of existing services in the frequency band 470-960 MHz in Region 1 and consider possible regulatory actions in the frequency band 470-694 MHz in Region 1 on the basis of the review in accordance with Resolution 235 (WRC-15);	Kenneth Concannon (Ireland)	
1.6 to consider, in accordance with Resolution 772 (WRC-19), regulatory provisions to facilitate radiocommunications for sub-orbital vehicles;		
1.7 to consider a new aeronautical mobile-satellite (R) service (AMS(R)S) allocation in accordance with Resolution 428 (WRC-19) for both the Earth-to-space and space-to-Earth directions of aeronautical VHF communications in all or part of the frequency band 117.975-137 MHz, while preventing any undue constraints on existing VHF systems operating in the AM(R)S, the ARNS, and in adjacent frequency bands;	Rabie Oularbi (France)	

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
<p>1.8 to consider, on the basis of ITU R studies in accordance with Resolution 171 (WRC-19), appropriate regulatory actions, with a view to reviewing and, if necessary, revising Resolution 155 (Rev.WRC 19) and No. 5.484B to accommodate the use of fixed-satellite service (FSS) networks by control and non-payload communications of unmanned aircraft systems;</p>	<p>Martin Weber (Germany)</p>	
<p>1.9 to review Appendix 27 of the Radio Regulations and consider appropriate regulatory actions and updates based on ITU R studies, in order to accommodate digital technologies for commercial aviation safety-of-life applications in existing HF bands allocated to the aeronautical mobile (route) service and ensure coexistence of current HF systems alongside modernized HF systems, in accordance with Resolution 429 (WRC-19);</p>		
<p>1.10 to conduct studies on spectrum needs, coexistence with radiocommunication services and regulatory measures for possible new allocations for the aeronautical mobile service for the use of non-safety aeronautical mobile applications, in</p>	<p>Jérôme André (France)</p>	

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
accordance with Resolution 430 (WRC-19)		
1.11 to consider possible regulatory actions to support the modernization of the Global Maritime Distress and Safety System and the implementation of e-navigation , in accordance with Resolution 361 (Rev.WRC-19);	Mr. Till Rettberg (Germany)	
1.12 to conduct, and complete in time for WRC-23, studies for a possible new secondary allocation to the Earth exploration-satellite (active) service for spaceborne radar sounders within the range of frequencies around 45 MHz, taking into account the protection of incumbent services, including in adjacent bands, in accordance with Resolution 656 (Rev.WRC-19);	Bruno Espinosa (ESA) as acting coordinator	
1.13 to consider a possible upgrade of the allocation of the frequency band 14.8-15.35 GHz to the space research service, in accordance with Resolution 661 (WRC-19);	Anton Stepanov (Russian Federation)	
1.14 to review and consider possible adjustments of the existing or possible new primary frequency allocations to EESS (passive) in the frequency range 231.5-252 GHz, to ensure	Markus Dreis (Germany)	

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
alignment with more up-to-date remote-sensing observation requirements, in accordance with Resolution 662 (WRC-19);		
1.15 to harmonize the use of the frequency band 12.75-13.25 GHz (Earth-to-space) by earth stations on aircraft and vessels communicating with geostationary space stations in the fixed-satellite service globally, in accordance with Resolution 172 (WRC-19);	Miia Mustonen (Germany)	
1.16 to study and develop technical, operational and regulatory measures, as appropriate, to facilitate the use of the frequency bands 17.7-18.6 GHz and 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) by non-GSO FSS earth stations in motion, while ensuring due protection of existing services in those frequency bands, in accordance with Resolution 173 (WRC-19);	Soraya Contreras (Switzerland)	
1.17 to determine and carry out, on the basis of the ITU-R studies in accordance with Resolution 773 (WRC-19), the appropriate regulatory actions for the provision of inter-satellite links in specific frequency bands, or portions thereof, by adding an	Nandan Patel (United Kingdom)	

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
inter-satellite service allocation where appropriate;		
1.18 to consider studies relating to spectrum needs and potential new allocations to the mobile-satellite service for future development of narrowband mobile-satellite systems, in accordance with Resolution 248 (WRC-19);	Norbert Schroeder (The Netherlands)	
1.19 to consider a new primary allocation to the fixed-satellite service in the space-to-Earth direction in the frequency band 17.3-17.7 GHz in Region 2, while protecting existing primary services in the band, in accordance with Resolution 174 (WRC-19);		
2 to examine the revised ITU R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with further resolves of Resolution 27 (Rev.WRC-19), and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in resolves of that Resolution;	Karel Antousek (Czech Republic)	

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
3 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;		
4 in accordance with Resolution 95 (Rev.WRC-19), to review the Resolutions and Recommendations of previous conferences with a view to their possible revision, replacement or abrogation;	Karel Antousek (Czech Republic)	
5 to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention;		
6 to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;		
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	Anna Marklund (Sweden)  supported by  Benoit Rougier (France) on application of Resolution 769 (WRC-19)  Thomas Weber (Germany) on application of	



<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
associated orbits, including the geostationary-satellite orbit	Resolution 770 (WRC-19)	
8 to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution 26 (Rev.WRC-19);	Rahid Alekberli (Azerbaijan)	
9.1 on the activities of the Radiocommunication Sector since WRC-19:  a) In accordance with Resolution 657 (Rev.WRC-19), review the results of studies relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations for space weather sensors with a view to describing appropriate recognition and protection in the Radio Regulations without placing additional constraints on incumbent services;	Bharat Dudhia (United Kingdom)  &  Katharina Borm (Germany)	
9.1 on the activities of the Radiocommunication Sector since WRC-19:  b) Review of the amateur service and the amateur-satellite service allocations in the frequency band 1 240 - 1 300 MHz to determine if additional measures are required to ensure protection of the radionavigation	Marco Marcovina (France)	

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
satellite (space-to-Earth) service operating in the same band in accordance with Resolution 774 (WRC-19);		
<p>9.1 on the activities of the Radiocommunication Sector since WRC-19:</p> <p>c) Study the use of International Mobile Telecommunication system for fixed wireless broadband in the frequency bands allocated to the fixed services on primary basis, in accordance with Resolution 175 (WRC-19);</p>	Nasarat Ali (United Kingdom)	
<p>9.1 on the activities of the Radiocommunication Sector since WRC-19:</p> <p>d) Protection of EESS (passive) in the frequency band 36-37 GHz from non-GSO FSS space stations; WRC-19 Document 535, 2nd section of the Annex</p>	Thibaut Caillet (France)	
9.3 on action in response to Resolution 80 (Rev.WRC-07);	Thomas Weber (Germany)	
10 to recommend to the Council items for inclusion in the agenda for the next WRC, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the Convention and Resolution 804 (Rev.WRC-19),	<p>Pasi Toivonen (Finland)</p> <p>supported by</p> <p>Karsten Buckwitz (Germany)</p> <p>Emmanuel Faussurier (France)</p>	

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
<p>Art 21: As a result of discussions by WRC-19 (see doc 550) on the applicability of the limit specified in No. 21.5 of the Radio Regulations to IMT stations that use an antenna that consists of an array of active elements, ITU-R was invited to study this issue and to report the results of the studies to the Director of the Radiocommunication Bureau to be considered as the Director deems appropriate.</p>	<p>PT 1 TBD</p> <p>PT B (Table 21-2): Florence Magnier (France)</p>	
<p>Res 427 Aeronautical provisions: WRC-19 through Resolution 427 (WRC-19) resolves to invite the ITU Radiocommunication Sector:</p> <p>to study the Articles, limited to Chapters IV, V, VI and VIII of Volume I, of the Radio Regulations and their associated Appendices, as appropriate, in order to identify outdated aeronautical provisions with respect to ICAO standards and recommended practices and to develop examples of regulatory texts for updating these provisions, while ensuring that potential changes to such provisions will not impact any other systems or services operating in accordance with the Radio Regulations,</p>		
<p>Res 655 time scale: Definition of time scale and dissemination of time signals via radiocommunication systems.</p>		

<b>WRC-23 Agenda Item</b>	<b>CEPT Coordinator</b>	<b>PTS AI-ansvarig</b>
<p>CS Article 48: to contribute to the consideration of the question by Com-ITU regarding the invocation of Article 48 of the ITU Constitution in relation to the Radio Regulations, as raised at WRC-19, and prepare relevant deliverables and liaisons to Com-ITU for CPG.</p>	<p>Thomas Weber (Germany)</p>	

## Konferensstruktur

TBD

### Agenda for the 2023 world radiocommunication conference

The World Radiocommunication Conference ([TBD], 2023),

*considering*

a) that, in accordance with No. 118 of the ITU Convention, the general scope of the agenda for a world radiocommunication conference should be established four to six years in advance and that a final agenda shall be established by the ITU Council two years before the conference;

b) Article 13 of the ITU Constitution relating to the competence and scheduling of world radiocommunication conferences and Article 7 of the Convention relating to their agendas;

c) the relevant resolutions and recommendations of previous world administrative radio conferences (WARCs) and world radiocommunication conferences (WRCs),

*recognizing*

a) that this conference has identified a number of urgent issues requiring further examination by WRC-23;

b) that, in preparing this agenda, some items proposed by administrations could not be included and have had to be deferred to future conference agendas,

*resolves*

to recommend to the Council that a world radiocommunication conference be held in 2023 for a maximum period of four weeks, with the following agenda:

1 on the basis of proposals from administrations, taking account of the results of WRC-19 and the Report of the Conference Preparatory Meeting, and with due regard to the requirements of existing and future services in the frequency bands under consideration, to consider and take appropriate action in respect of the following items:

1.1 to consider, based on the results of the ITU-R studies, possible measures to address, in the frequency band 4 800-4

990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the pfd criteria in No. **5.441B** in accordance with Resolution **223 (Rev.WRC-19)**;

1.2 to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **COM6/2 (WRC-19)**;

1.3 to consider primary allocation of the band 3 600-3 800 MHz to mobile service within Region 1 and take appropriate regulatory actions, in accordance with **Resolution COM6/3 (WRC-19)**;

1.4 to consider, in accordance with Resolution **COM6/4 (WRC-19)**, the use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level;

1.5 to review the spectrum use and spectrum needs of existing services in the frequency band 470-960 MHz in Region 1 and consider possible regulatory actions in the frequency band 470-694 MHz in Region 1 on the basis of the review in accordance with Resolution **235 (WRC-15)**;

1.6 to consider, in accordance with Resolution **COM6/5 (WRC-19)**, regulatory provisions to facilitate radiocommunications for sub-orbital vehicles;

1.7 to consider a new aeronautical mobile-satellite (R) service (AMS(R)S) allocation in accordance with Resolution **COM6/6 (WRC-19)** for both the Earth-to-space and space-to-Earth directions of aeronautical VHF communications in all or part of the frequency band 117.975-137 MHz, while preventing any undue constraints on existing VHF systems operating in the AM(R)S, the ARNS, and in adjacent frequency bands;

1.8 to consider, on the basis of ITU-R studies in accordance with Resolution **COM6/7 (WRC-19)**, appropriate regulatory actions, with a view to reviewing and, if necessary, revising Resolution **155 (Rev.WRC-19)** and No. **5.484B** to accommodate the use of fixed-satellite service (FSS) networks by control and non-payload communications of unmanned aircraft systems;

1.9 to review Appendix **27** of the Radio Regulations and consider appropriate regulatory actions and updates based on ITU-R studies, in order to accommodate digital technologies for commercial aviation safety-of-life applications in existing HF bands allocated to the aeronautical mobile (route) service and ensure coexistence of current HF systems alongside modernized HF systems, in accordance with Resolution **COM6/8 (WRC-19)**;

1.10 to conduct studies on spectrum needs, coexistence with radiocommunication services and regulatory measures for possible new allocations for the aeronautical mobile service for the use of non-safety aeronautical mobile applications, in accordance with Resolution **COM6/9 (WRC-19)**;

1.11 to consider possible regulatory actions to support the modernization of the Global Maritime Distress and Safety System and the implementation of enavigation-, in accordance with Resolution **361 (Rev.WRC-19)**;

1.12 to conduct, and complete in time for WRC-23, studies for a possible new secondary allocation to the Earth exploration-satellite (active) service for spaceborne radar sounders within the range of frequencies around 45 MHz, taking into account the protection of incumbent services, including in adjacent bands, in accordance with Resolution **656 (Rev.WRC-19)**;

1.13 to consider a possible upgrade of the allocation of the frequency band 14.8-15.35 GHz to the space research service, in accordance with Resolution **COM6/10 (WRC-19)**;

1.14 to review and consider possible adjustments of the existing or possible new primary frequency allocations to EESS (passive) in the frequency range 231.5-252 GHz, to ensure alignment with more up-to-date remote-sensing observation requirements, in accordance with Resolution **COM6/11 (WRC-19)**;

1.15 to harmonize the use of the frequency band 12.75-13.25 GHz (Earth-to-space) by earth stations on aircraft and vessels communicating with geostationary space stations in the fixed-satellite service globally, in accordance with Resolution **COM6/12 (WRC-19)**;

1.16 to study and develop technical, operational and regulatory measures, as appropriate, to facilitate the use of the frequency bands 17.7-18.6 GHz and 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) by non-GSO FSS earth stations in motion, while ensuring due protection of existing services in those frequency bands, in accordance with Resolution **COM6/13 (WRC-19)**;

1.17 to determine and carry out, on the basis of the ITU-R studies in accordance with Resolution **COM6/14 (WRC-19)**, the appropriate regulatory actions for the provision of inter-satellite links in specific frequency bands, or portions thereof, by adding an inter-satellite service allocation where appropriate;

1.18 to consider studies relating to spectrum needs and potential new allocations to the mobile-satellite service for future development of narrowband mobile-satellite systems, in accordance with Resolution **COM6/15 (WRC-19)**;

1.19 to consider a new primary allocation to the fixed-satellite service in the space-to-Earth direction in the frequency band 17.3-17.7 GHz in Region 2, while protecting existing primary services in the band, in accordance with Resolution **COM6/16 (WRC-19)**;

2 to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with *further resolves* of Resolution **27 (Rev.WRC-19)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in *resolves* of that Resolution;

3 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;

4 in accordance with Resolution **95 (Rev.WRC-19)**, to review the Resolutions and Recommendations of previous conferences with a view to their possible revision, replacement or abrogation;

5 to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention;

6 to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;

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;

8 to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution **26 (Rev.WRC-19)**;

9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention;

9.1 on the activities of the Radiocommunication Sector since WRC-19:

- a) In accordance with Resolution **657 (Rev.WRC-19)**, review the results of studies relating to the technical and operational characteristics, spectrum requirements and appropriate radio service designations for space weather sensors with a view to describing appropriate recognition and protection in the Radio Regulations without placing additional constraints on incumbent services;
- b) Review of the amateur service and the amateur-satellite service allocations in the frequency band 1 2401 300 MHz to determine if additional measures are required to ensure protection of the radionavigation--satellite (space-to-Earth) service operating in the same band in accordance with Resolution **COM6/17 (WRC-19)**;
- c) Study the use of International Mobile Telecommunication system for fixed wireless broadband in the frequency bands allocated to the fixed services on primary basis, in accordance with Resolution **COM6/18 (WRC-19)**;
- d) Protection of EESS (passive) in the frequency band 36-37 GHz from non-GSO FSS space stations; WRC-19 Document 535, 2nd section of the Annex

9.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations; and<sup>1</sup>

9.3 on action in response to Resolution **80 (Rev.WRC-07)**;

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<sup>1</sup> This agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations. Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.

10 to recommend to the Council items for inclusion in the agenda for the next WRC, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the Convention and Resolution **804 (Rev.WRC-19)**,

*invites the ITU Council*

to finalize the agenda and arrange for the convening of WRC23, and to initiate as soon as possible the necessary consultations with Member States,

instructs the Director of the Radiocommunication Bureau

1 to make the necessary arrangements to convene meetings of the Conference Preparatory Meeting and to prepare a report to WRC-23;

2 to submit a draft report on any difficulties or inconsistencies encountered in the application of the Radio Regulations referred in agenda item 9.2 to the second session of the CPM and to submit the final report at least five months before the next WRC,

*instructs the Secretary-General*

to communicate this Resolution to international and regional organizations concerned.

## **Table of contents of the draft CPM Report to WRC-23**

TBD

## Bilaga 1 Process för framtagande av svenska ståndpunkter

# Process för WRC-ståndpunkter

