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3rd ITU INTER-REGIONAL WORKSHOP ON WRC-19 PREPARATION (Geneva, 4-6 September 2019)

Panel Session 4

WRC-19

Agenda item 1.16

Hector Marin
Mexico

WRC-19 agenda item 1.16

To consider issues related to wireless access systems, including radio local area networks (WAS/RLAN), in the frequency bands between 5 150 MHz and 5 925 MHz, and take the appropriate regulatory actions, including additional spectrum allocations to the mobile service, in accordance with Resolution **239 (WRC-15)**.

Resolution **239 (WRC-15)** calls for studies concerning Wireless Access Systems including radio local area networks in the frequency bands between 5 150 MHz and 5 925 MHz

Frequency ranges

The frequency bands investigated under this agenda item are denoted by the letters A, B, C, D, and E:

Band A	5 150-5 250 MHz
Band B	5 250-5 350 MHz
Band C	5 350-5 470 MHz
Band D	5 725-5 850 MHz
Band E	5 850-5 925 MHz

Frequency range 5 150-5 250 MHz (A)

Allocation to services		
Region 1	**Region 2**	**Region 3**
5 150-5 250	FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B AERONAUTICAL RADIONAVIGATION 5.446 5.446C 5.447 5.447B 5.447C	

Method A1 No change to the RR

Method A2 Revision to Resolution **229 (Rev.WRC-12)** to enable outdoor RLAN operations including possible associated conditions for new e.i.r.p. limits

Method A3 Revision to Resolution **229 (Rev.WRC-12)** to enable outdoor RLAN operations by applying the same conditions of use as defined for the 5 250-5 350 MHz frequency band in resolves 4 of Resolution **229 (Rev.WRC-12)**

Frequency range 5 150-5 250 MHz (A)

Method A4	Revisions to Resolution **229 (Rev.WRC-12)** to facilitate limited RLAN outdoor operation and RLAN in-vehicle (cars and trains) usage operation with associated e.i.r.p. levels
Method A5	Revisions to Resolution **229 (Rev.WRC-12)** to enable in-car use of RLAN operation with e.i.r.p. up to 40 mW
Method A6	Revision to Resolution **229 (Rev.WRC-12)** to enable outdoor RLAN operations including associated conditions for new e.i.r.p. limits and out-of-band emission limits

Frequency range 5 250-5 350 MHz (B)

Allocation to services		
Region 1	**Region 2**	**Region 3**
5 250-5 255	EARTH EXPLORATION-SATELLITE (active) MOBILE except aeronautical mobile 5.446A 5.447F RADIOLOCATION SPACE RESEARCH 5.447D 5.447E 5.448 5.448A	
5 255-5 350	EARTH EXPLORATION-SATELLITE (active) MOBILE except aeronautical mobile 5.446A 5.447F RADIOLOCATION SPACE RESEARCH (active) 5.447E 5.448 5.448A	

Method B No change to the RR

Frequency range 5 350-5 470 MHz (C)

Allocation to services		
Region 1	**Region 2**	**Region 3**
5 350-5 460	EARTH EXPLORATION-SATELLITE (active) 5.448B RADIOLOCATION 5.448D AERONAUTICAL RADIONAVIGATION 5.449 SPACE RESEARCH (active) 5.448C	
5 460-5 470	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION 5.448D RADIONAVIGATION 5.449 SPACE RESEARCH (active) 5.448B	

Method C No change to the RR

Frequency range 5 725-5 850 MHz (D)

Allocation to services		
Region 1	**Region 2**	**Region 3**
5 725-5 830 FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur 5.150 5.451 5.453 5.455	**5 725-5 830** RADIOLOCATION Amateur 5.150 5.453 5.455	
5 830-5 850 FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth) 5.150 5.451 5.453 5.455	**5 830-5 850** RADIOLOCATION Amateur Amateur-satellite (space-to-Earth) 5.150 5.453 5.455	

Method D1 No change to the RR

Method D2 A new Regional primary MS allocation

Method D3 Accommodate WAS/RLAN in a new footnote

Frequency range 5 850-5 925 MHz (E)

Allocation to services		
Region 1	**Region 2**	**Region 3**
5 850-5 925 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.150	**5 850-5 925** FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Amateur Radiolocation 5.150	**5 850-5 925** FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation 5.150

Method E No change to the RR

Regional Positions

Method	APT	ASMG	ATU	CEPT	CITEL	RCC
Frequency range 5 150-5 250 MHz (A)						
A1 (NOC)	Some Support	Some Support	Some Support			Support
A2 (+outdoor)	Does not Support	Some Support			Support	Oppose
A3 (+outdoor & limits)	Some Support	Some Support	Some Support			Oppose
A4 (+cars & trains)	Does not Support			Partial Support		Oppose
A5 (+in-car, ≤ 40 mW)	Does not support					Oppose
A6 (+outdoor & OoB limits)	Does not support					Oppose

Regional Positions

Method	APT	ASMG	ATU	CEPT	CITEL	RCC
Frequency ranges 5 250-5 350 MHz (B) and 5 350-5 470 MHz (C)						
B, C (NOC)	Support	Support	Support	Support	Support	Support
Frequency range 5 725-5 850 MHz (D)						
D1 (NOC)		Support	Support	Support	Support	Support
D2 (+new Regional primary MS allocation)	Support					Oppose
D3 (new country footnote)						Oppose
Frequency range 5 850-5 925 MHz (E)						
E (NOC)	Support	Support	Support	Support	Support	Support

WRC-19 agenda item 1.11

To take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands to support railway radiocommunication systems between train and trackside within existing mobile service allocations, in accordance with Resolution **236 (WRC-15)**.

Resolution **236 (WRC-15)** – Railway radiocommunication systems between train and trackside

WRC-19 agenda item 1.12

To consider possible global or regional harmonized frequency bands, to the maximum extent possible, for the implementation of evolving Intelligent Transport Systems (ITS) under existing mobile-service allocations, in accordance with Resolution **237 (WRC-15)**.

Resolution **237 (WRC-15)** – Intelligent Transport Systems applications

WRC-19 agenda item 1.15

To consider identification of frequency bands for use by administrations for the land-mobile and fixed services applications operating in the frequency range 275-450 GHz, in accordance with Resolution **767 (WRC-15)**.

Resolution **767 (WRC-15)** – Studies towards an identification for use by administrations for land-mobile and fixed services applications operating in the frequency range 275-450 GHz

WRC-19 agenda item 9.1.5

Res. **764 (WRC-15)** – Consideration of the technical and regulatory impacts of referencing Recommendations ITU R M.1638-1 and ITU R M.1849-1 in Nos. **5.447F** and **5.450A** of the Radio Regulations