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ITUEvents

3rd ITU Inter-regional Workshop on WRC-19 Preparation

4-6 September 2019 Geneva, Switzerland

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

Panel Session 3 WRC-19 Agenda item 1.14

Hugues de Bailliencourt







WRC-19 Agenda item 1.14

To consider, on the basis of ITU-R studies in accordance with Resolution 160 (WRC-15), appropriate regulatory actions for high-altitude platform stations (HAPS), within existing fixed-service allocations.

➤ Resolution 160 (WRC-15): Facilitating access to broadband applications delivered by high-altitude platform stations.



Agenda item 1.14 – ITU-R Studies

- HAPS characteristics: Report ITU-R F-2439;
- Spectrum requirement: Report ITU-R F.2438;
- Sharing studies completed in the followings bands:
 - 6 440 6 520 MHz: Report ITU-R F.2437;
 - 21.4 22 GHz: recently approved (5/163);
 - 24.25 27.5 GHz: recently approved (5/161);
 - 27.9 28.2 GHz/31-31.3 GHz: recently approved (5/164);
 - 38 39.5 GHz: recently approved (5/160);
 - 47.2 47.5 GHz/47.9 48.2 GHz: recently approved (5/162);
- No sharing studies in the band 6 560 6 640 MHz under Agenda Item 1.14.



Agenda item 1.14 – CPM Methods

The following methods are considered under this agenda item and may be applied to potential candidate frequency bands

- Method A No change.
- Method B Identification of bands, or parts thereof in accordance with Resolution 160 (WRC-15) with options:
- Method B1 Revision of the regulatory provisions for HAPS in the FS with a primary status in bands already identified for HAPS.
- Method B2 Add new identification(s) for HAPS in bands already allocated to the FS with a primary status.
- Method B3 Add a primary allocation to the FS and a new identification for HAPS in the band 24.25-25.25 GHz (Region 2) not already allocated to the FS.
- Method C Suppress the existing HAPS identification, pursuant to resolves 3 of Resolution 160 (WRC-15).



Agenda item 1.14 – CPM Methods

An overview of methods and relevant options currently considered in this CPM text under the agenda item is provided in the table below:

Panda	Methods and options			
Bands	Method A	Method B	Method C	
6 440-6 520 MHz	√	B1	V	
6 560-6 640 MHz	V	Not proposed	V	
21.4-22 GHz (R2 only)	V	B2	N/A	
24.25-25.25 GHz (R2 only)	V	В3	N/A	
25.25-27.5 GHz (R2 only)	V	B2	N/A	
27.9-28.2 GHz	1	B1	V	
31-31.3 GHz	$\sqrt{}$	B1	V	
38-39.5 GHz	V	B2	N/A	
47.2-47.5 GHz / 47.9-48.2 GHz	V	B1	V	



Agenda item 1.14 – Regional Position (existing HAPS identifications)













Bands	APT	ASMG	ATU	CEPT	CITEL	RCC
6 440 – 6 520 MHz	Method A No Change	Method A No Change	Method B1 Worldwide downlink	Method B1 Worldwide downlink	No proposal	
6 560 – 6 640 MHz	Method A No Change	Method A No Change	No proposal	Method A No Change	No proposal	
27.9 – 28.2 GHz	No proposal	Method A No Change	Method B1 Worldwide downlink	Method B1** Worldwide downlink	No proposal	TBD*
31 – 31.3 GHz	No proposal	Method A No Change	Method B1 Worldwide downlink & uplink	Method B1 Worldwide downlink & uplink	No proposal	
47.2 – 47.5 GHz 47.9 – 48.2 GHz	No proposal	Method A No Change	Method B1 Improve the existing worldwide identification	Method B1 Improve the existing worldwide identification	Method B1 Improve the existing worldwide identification	

^{*} To be determined during last RCC WRC/RA meeting (Kazakhstan, Almaty, 9 -11 Sept.2019).

^{**} CEPT proposes additional new provisions including HAPS ground stations cannot claim protection from FSS earth stations in this band



Agenda item 1.14 – Regional Position (new HAPS identifications)













Bands	APT	ASMG	ATU	CEPT	CITEL	RCC
21.4 – 22 GHz (Region 2 only)	No proposal	Method A No Change	No proposal	No proposal *	Method B2 Downlink	
24.25 – 25.25 GHz (Region 2 only)	No proposal but should not limit the possibility to	Method A No Change		No proposal but should not limit the possibility to	Method B3 Downlink	
25.25 – 27 GHz (Region 2 only)	identify the band for IMT on a global basis under WRC-19 Agenda item 1.13	Method A No Change	No proposal	identify the band for IMT on a global basis under WRC-19 Agenda item 1.13 *	Method B2 Uplink	TBD**
27 – 27.5 GHz (Region 2 only)		Method A No Change			Method B2 Downlink	
38 – 39.5 GHz	No proposal	Method A No Change	Method B2 Uplink	Method B2 Downlink & Uplink	Method B2 Uplink	

^{*} CEPT is of the view that any consideration of the frequency bands 21.4-22 GHz and 24.25-27.5 GHz in Region 2 under this Agenda item shall by accompanied by appropriate protection of: ISS in the band 24.45-24.75 GHz, ISS in the band 25.25-27.5 GHz, EESS (passive) in the bands 21.2-21.4 GHz, 22.21-22.5 GHz and 23.6-24 GHz, EESS and SRS (space-to-Earth) in the band 25.5-27 GHz and FSS in the bands 24.75-25.25 GHz and 27-27.5 GHz.

^{**} To be determined during last RCC WRC/RA meeting (Kazakhstan, Almaty, 9 -11 Sept.2019).

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Thank you for your attention

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